TOSHIBA

SERVICE MANUAL

LCD Color Television

42WLT66 Ver. 1

This model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).
For (*1) and (*2), refer to **GREEN PRODUCT PROCUREMENT** and **LEAD-FREE SOLDER**.

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IMPORTANT NOTICE

WARNING:

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GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86ºF to 104ºF (30ºC to 40ºC). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

SAFETY INSTRUCTION

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.

4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.

5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.

6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.

7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.

8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.

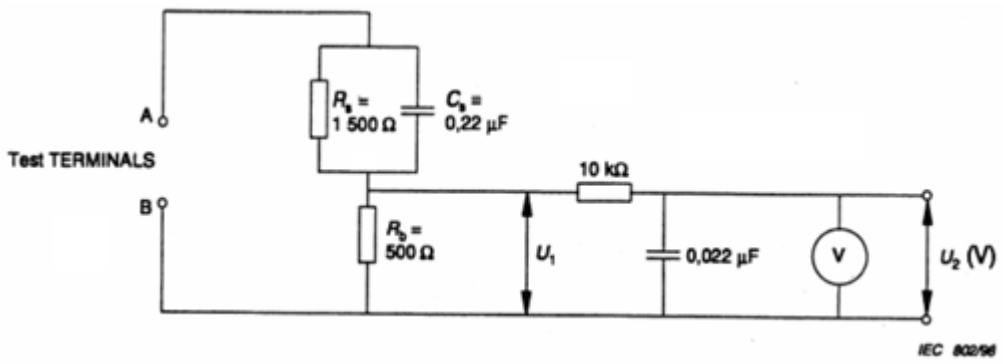
9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.

10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)

 - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.
 - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.

Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : $\geq$ 1 MΩ
Input capacitance : $\leq$ 200 pF
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = U_2/500 (peak value).

- The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 does not exceed the following value:

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

The TOUCH CURRENT expressed as voltages U_1 and U_2, does not exceed the following values:
- for a.c. : U_1 = 35 V (peak) and U_2 = 0.35 V (peak);

- for d.c. : U_1 = 1.0 V

Note: The limit values of U_2 = 0.35 V (peak) for a.c. and U_1 = 1.0 V for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

SAFETY INSTRUCTION

Handling the LCD Module

Safety Precaution

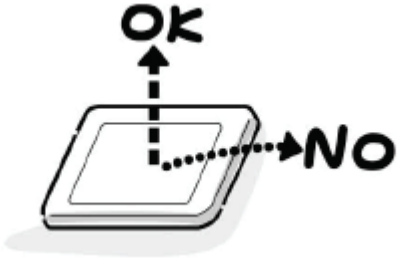
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

CAUTION: The metal edges of the LCD module are sharp, handle it with care.

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module

because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.



3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
 If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.



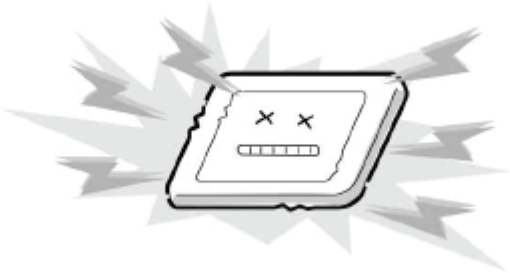
4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.



5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.



6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.



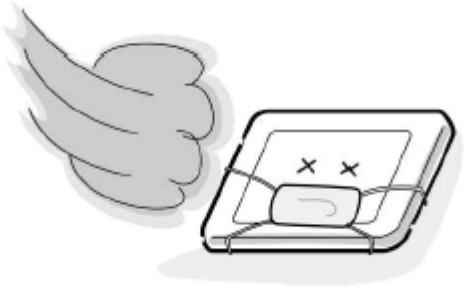
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

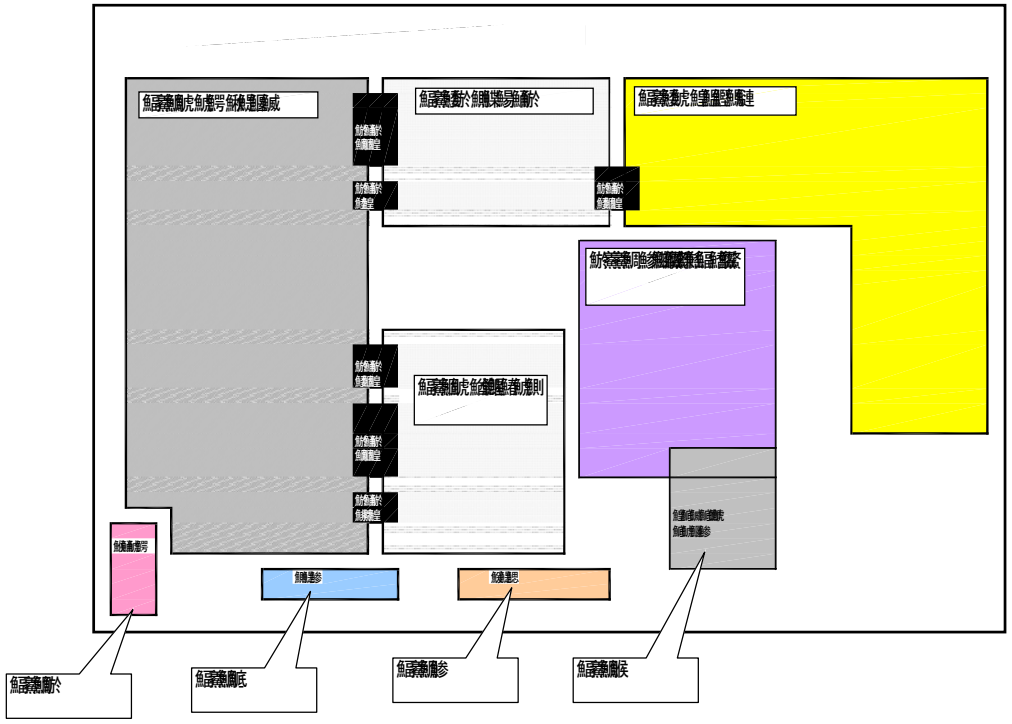


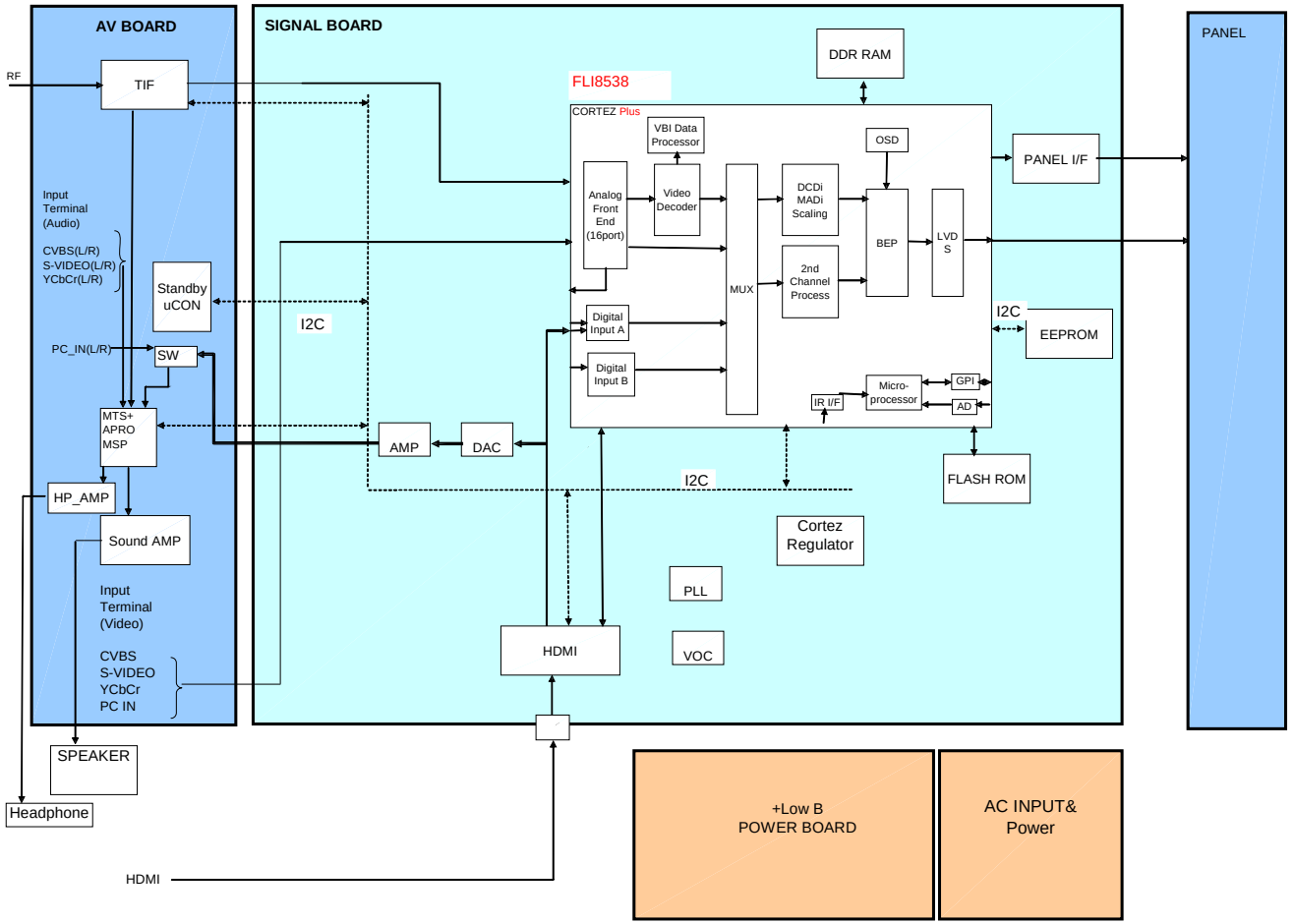
9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.






AV BOARD
SIGNAL BOARD
PANEL
RF
TIF
DDR RAM
FLI8538
CORTEZ Plus
VBI Data Processor
OSD
PANEL I/F
Input Terminal (Audio)
CVBS(L/R)
S-VIDEO(L/R)
YCbCr(L/R)
Analog Front End (16port)
Video Decoder
MUX
DCDi MADi Scaling
BEP
LVD S
2nd Channel Process
Standby uCON
I2C
Digital Input A
Digital Input B
I2C
EEPROM
PC_IN(L/R)
SW
IR I/F
Micro-processor
GPI
AD
MTS+ APRO MSP
AMP
DAC
FLASH ROM
I2C
HP_AMP
Cortez Regulator
Sound AMP
PLL
Input Terminal (Video)
HDMI
VOC
CVBS
S-VIDEO
YCbCr
PC IN
SPEAKER
Headphone
HDMI
+Low B
POWER BOARD
AC INPUT&
Power

SCHEMATIC DIAGRAM

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and
should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

1. RESISTOR
 Resistance is shown in ohm [K=1,000, M=1,000,000]. All resistors are 1/6 W and 5 % tolerance carbon resistor, unless otherwise noted as the following marks.

 1/2R : Metal or Metal oxide of 1/2 watt
 1/2S : Carbon composition of 1/2 watt
 1RF : Fuse resistor of 1 watt
 10 W : Cement of 10 watt
 K : ±10 %
 G : ±2 %
 F : ±1 %

2. CAPACITOR

Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
All capacitors are ceramic 50 V, unless otherwise noted as the following marks.

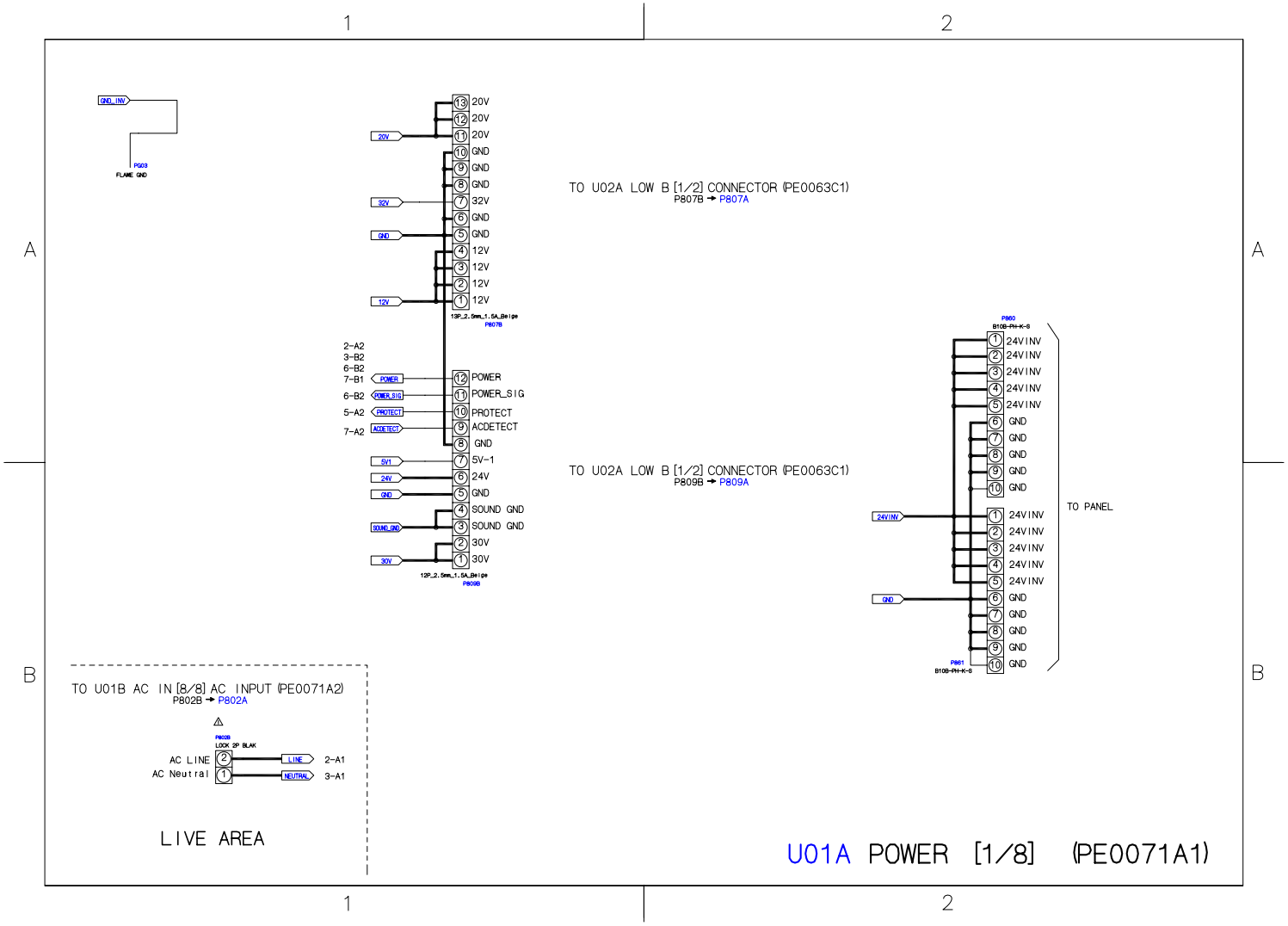
 = Electrolytic capacitor
 = Mylar capacitor

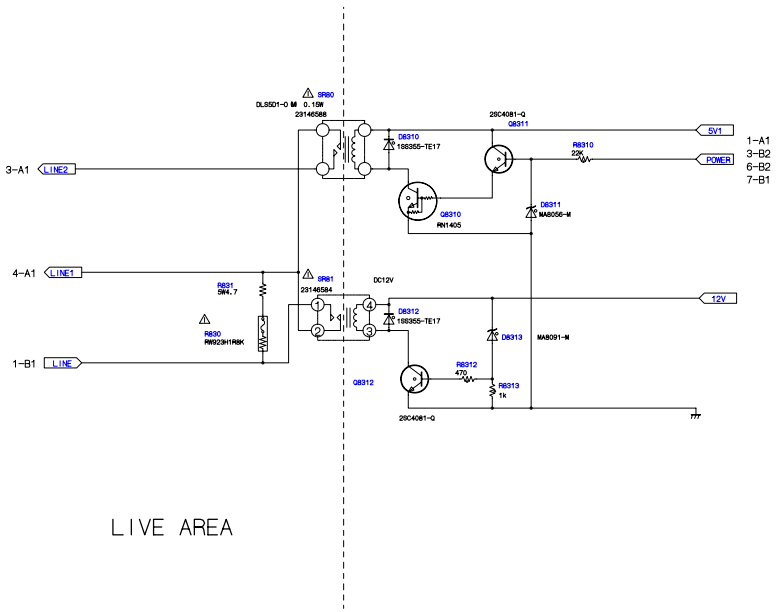
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.

4. Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage at nominal AC volts.

5. Waveforms are taken receiving color bar signal with enough sensitivity.

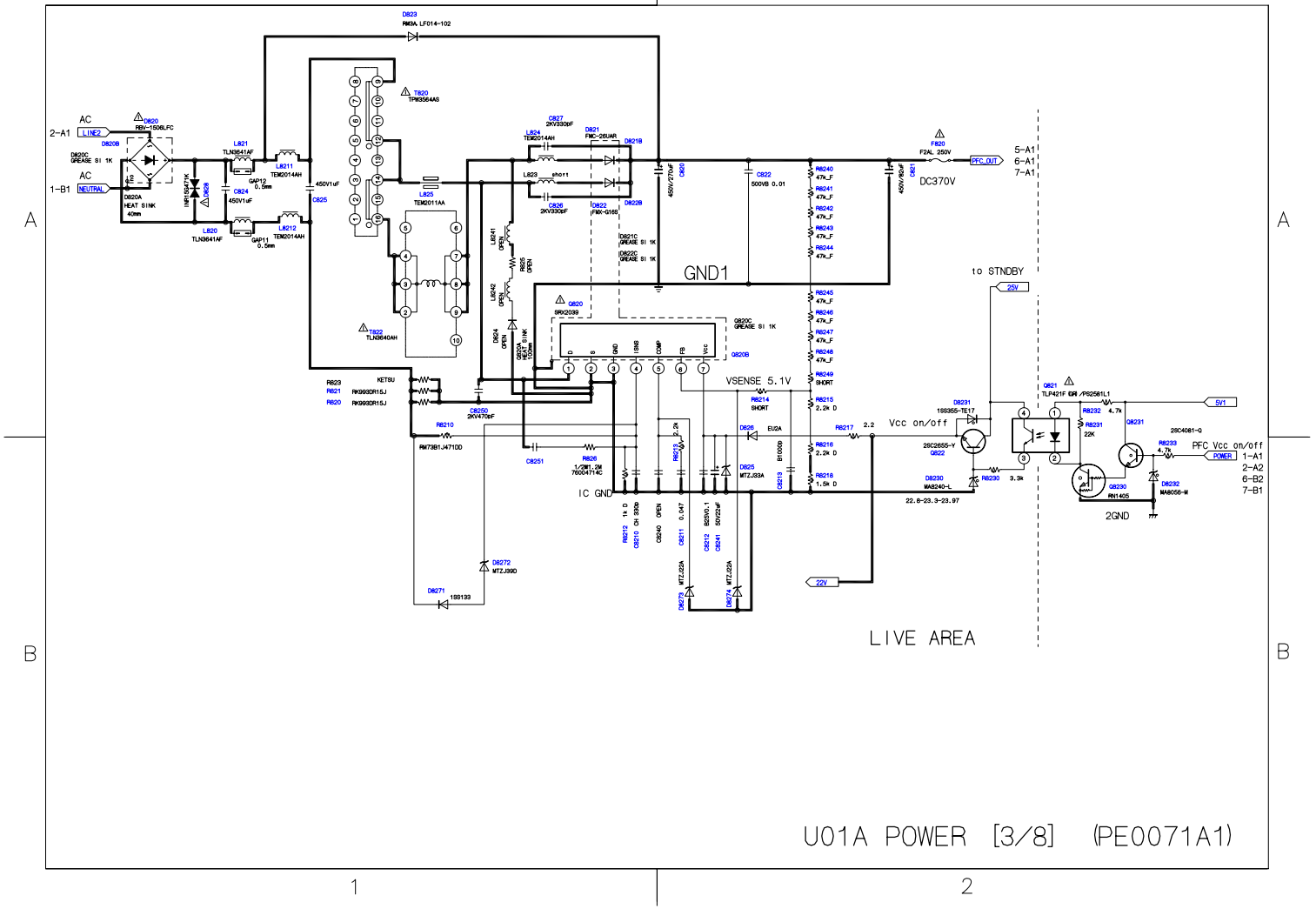
6. Voltage reading shown are nominal values and may vary ±20 % except H.V.

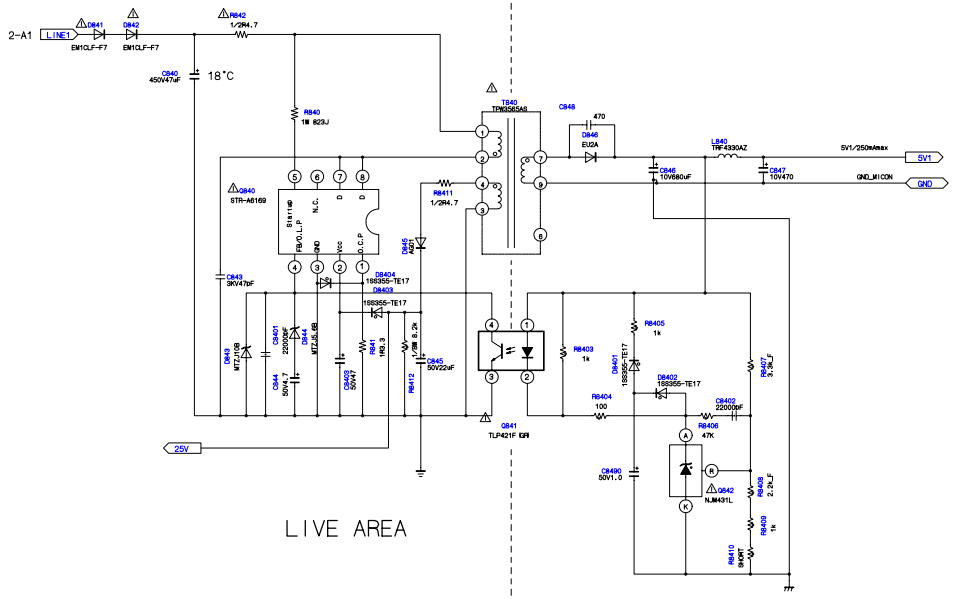

GND_INV
P809
FLAME GND
20V
32V
GND
12V
13P_2.5mm_1.5A_Beige
P807B
2-A2
3-B2
6-B2
7-B1
6-B2
5-A2
7-A2
POWER
POWER_SIG
PROTECT
ACDETECT
5V1
24V
SOUND_GND
30V
P807B
20V
20V
20V
GND
GND
GND
32V
GND
GND
12V
12V
12V
12V
POWER
POWER_SIG
PROTECT
ACDETECT
GND
5V-1
24V
GND
SOUND GND
SOUND GND
30V
30V
12P_2.5mm_1.5A_Beige
P809B
TO U02A LOW B [1/2] CONNECTOR (PE0063C1)
P807B → P807A
TO U02A LOW B [1/2] CONNECTOR (PE0063C1)
P809B → P809A
P860
B10B-PH-K-S
24V INV
24V INV
24V INV
24V INV
24V INV
GND
GND
GND
GND
GND
24V INV
24V INV
24V INV
24V INV
24V INV
GND
GND
GND
GND
GND
P861
B10B-PH-K-S
TO PANEL
TO U01B AC IN [8/8] AC INPUT (PE0071A2)
P802B → P802A
P802B
LOCK 2P BLAK
AC LINE
AC Neutral
LINE
NEUTRAL
2-A1
3-A1
LIVE AREA
U01A POWER [1/8] (PE0071A1)



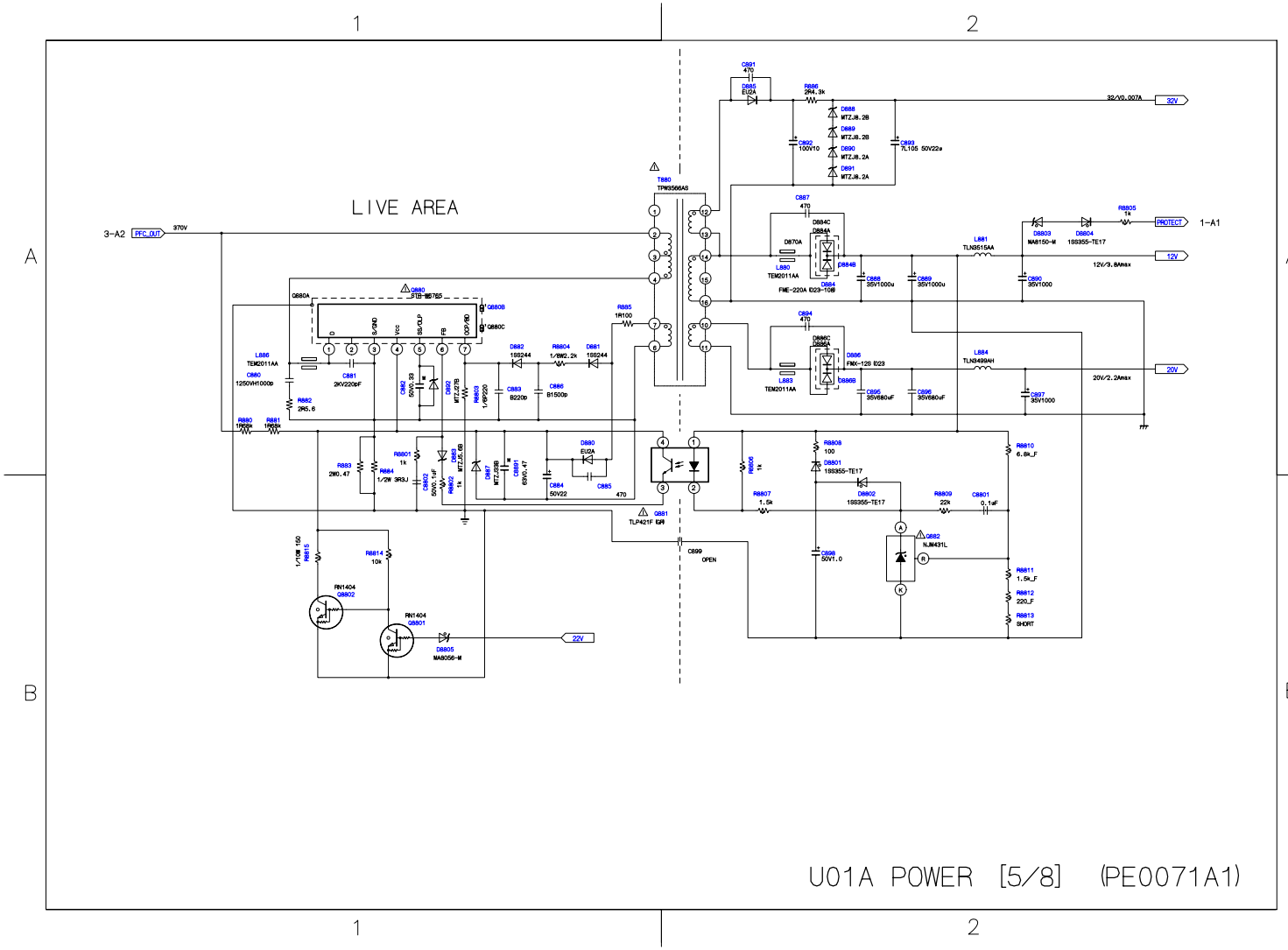
LIVE AREA

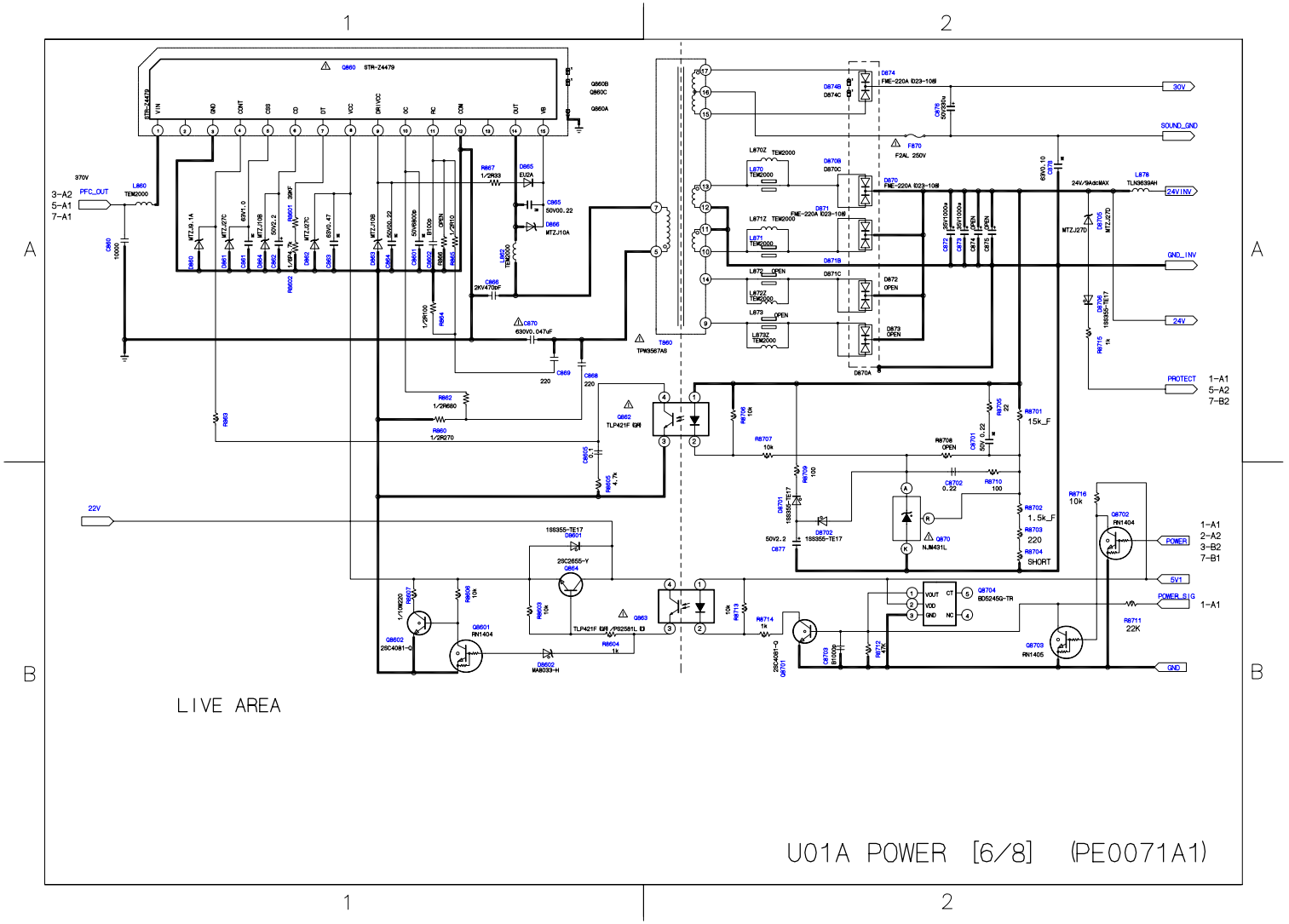
U01A POWER [2/8] (PE0071A1)

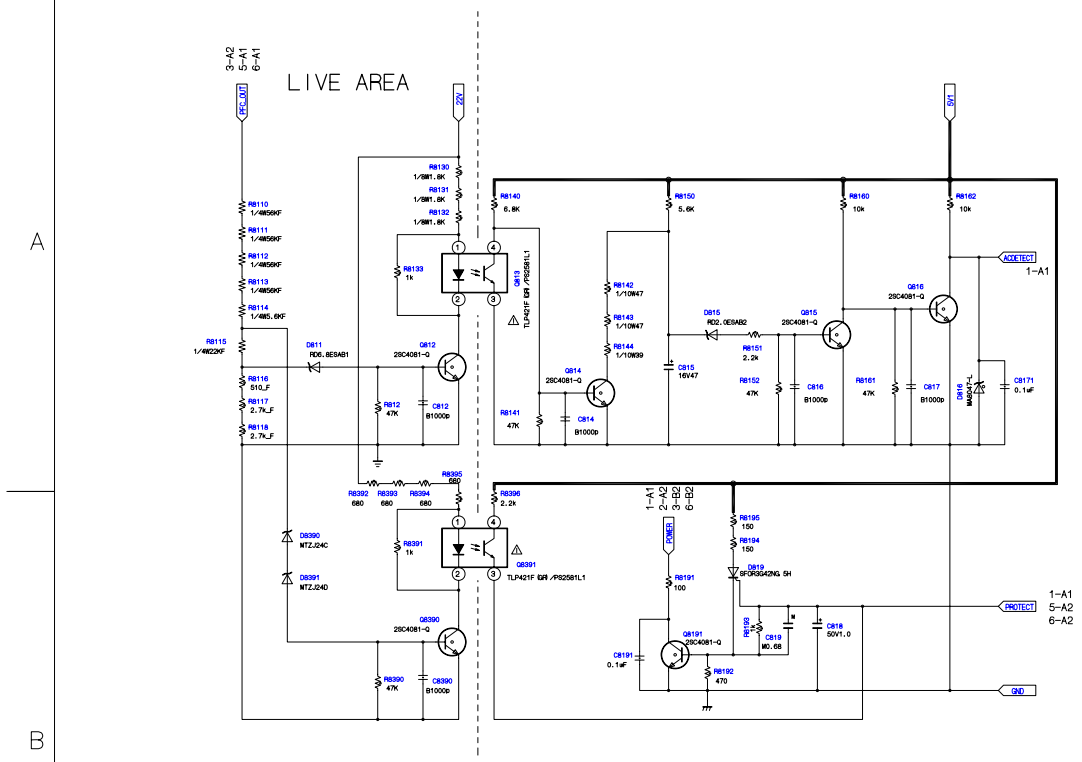

AC
2-A1
LINE2
AC
1-B1
NEUTRAL
GND1
DC370V
PFC_OUT
5-A1
6-A1
7-A1
to STNDBY
25V
VSENSE 5.1V
Vcc on/off
IC GND
2GND
5V1
POWER
PFC Vcc on/off
1-A1
2-A2
6-B2
7-B1
22V
LIVE AREA
U01A POWER [3/8] (PE0071A1)



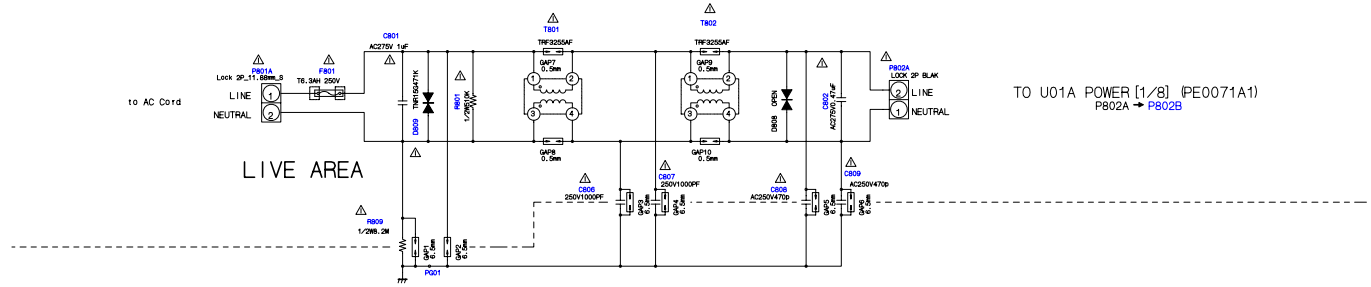
U01A POWER [4/8] (PE0071A1)


LIVE AREA
3-A2
PFC_OUT
370V
T880
TPW3566AS
Q880
STR-W6765
32V/0.007A
32V
12V/9.8Amax
12V
PROTECT
1-A1
20V/2.2Amax
20V
22V
Q881
TLP421F
Q882
NJM431L
C899
OPEN
U01A POWER [5/8] (PE0071A1)

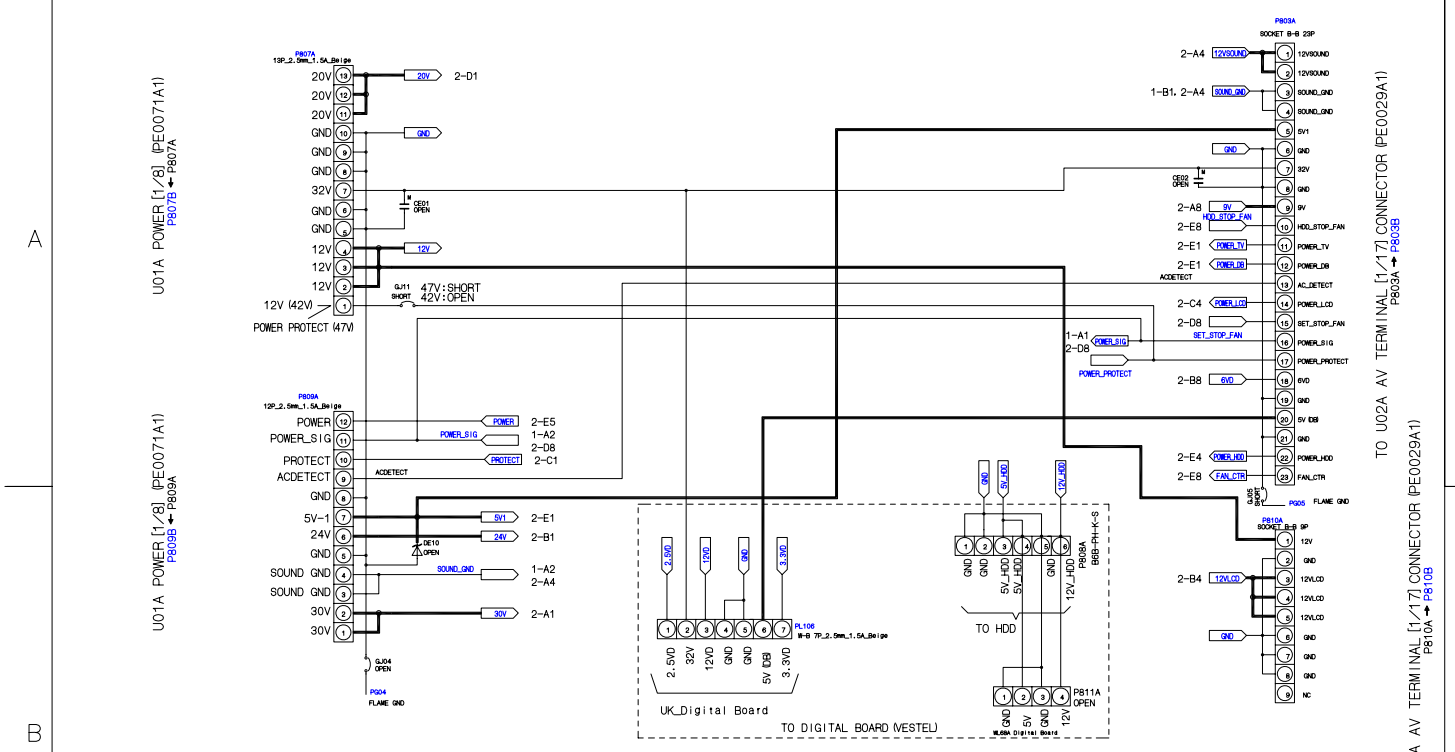

1
2
A
B
LIVE AREA
U01A POWER [6/8] (PE0071A1)
STR-Z4479
370V
PFC_OUT
3-A2
5-A1
7-A1
22V
30V
SOUND_GND
24V1NV
GND_INV
24V
PROTECT
1-A1
5-A2
7-B2
POWER
1-A1
2-A2
3-B2
7-B1
5V1
POWER_SIG
1-A1
GND
SHORT



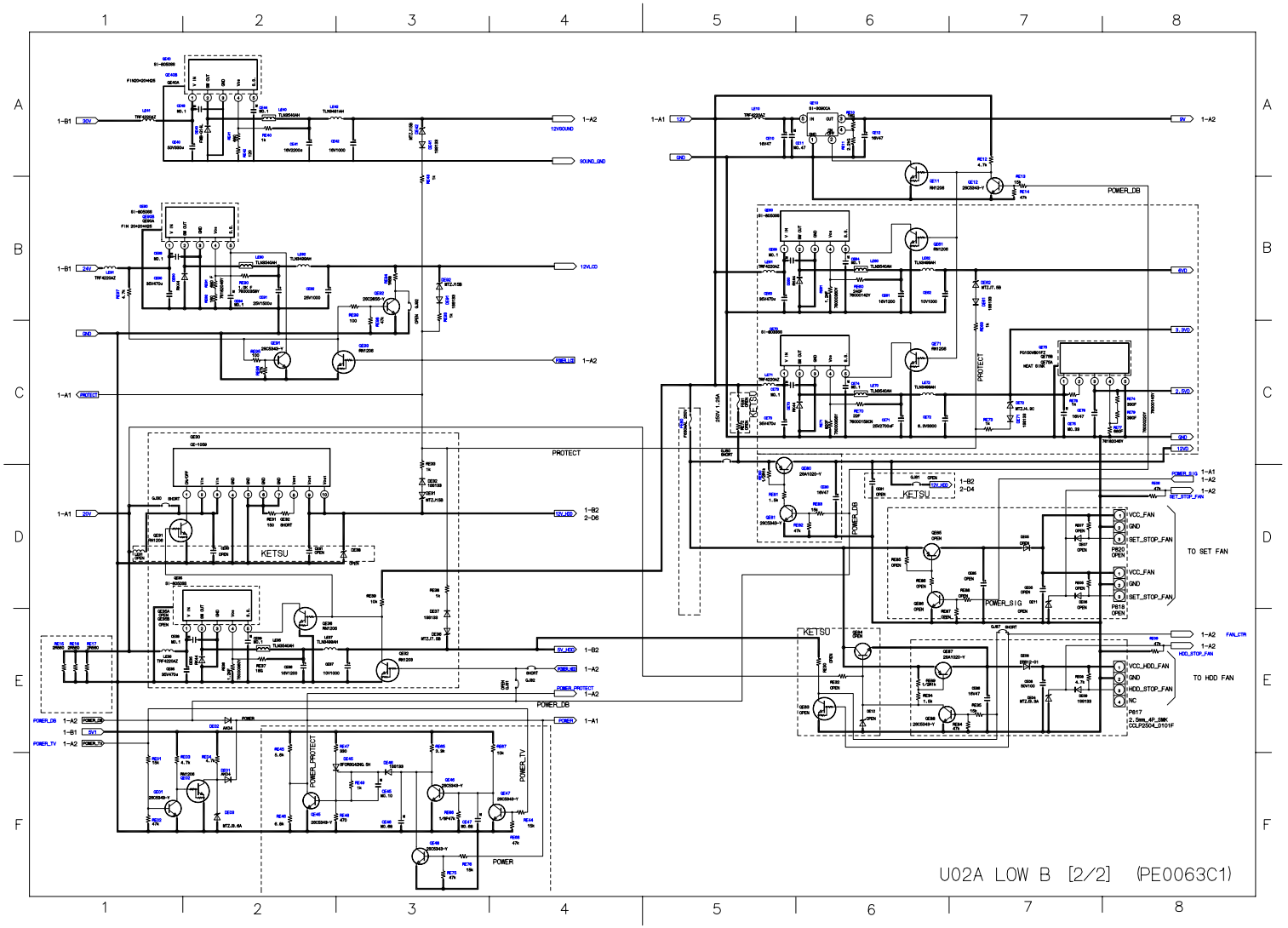
U01A POWER [7/8] (PE0071A1)

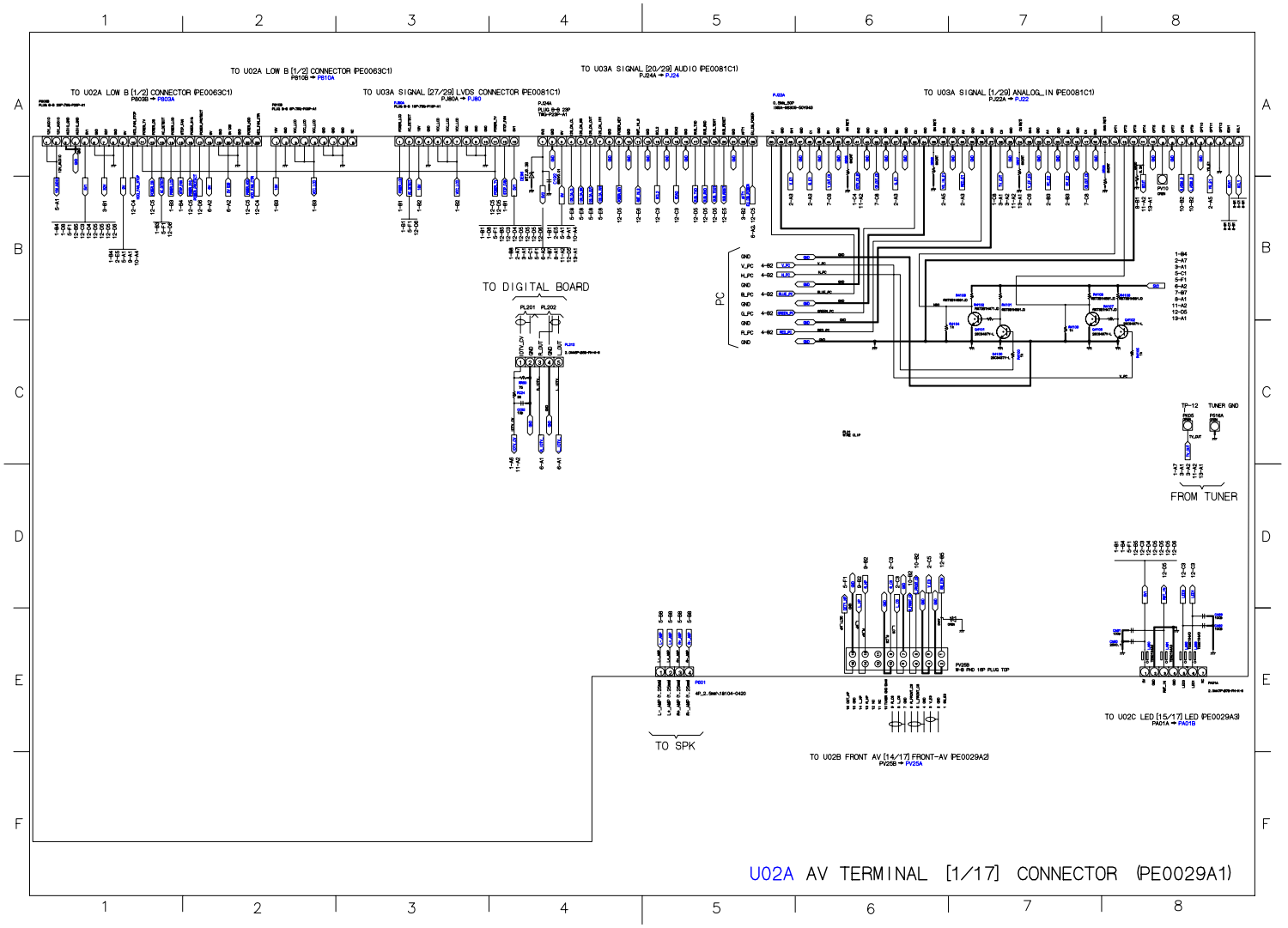


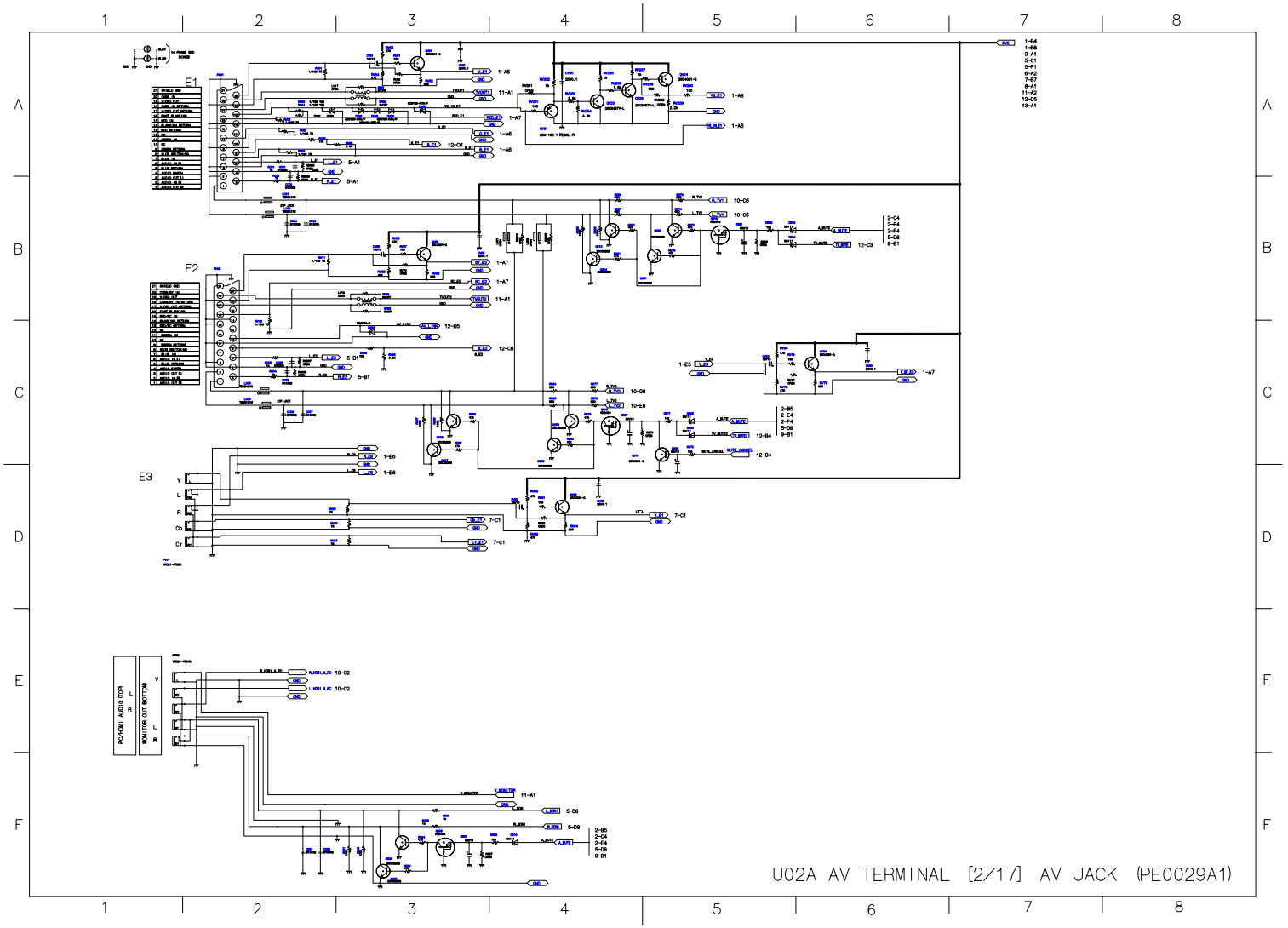
U01B AC IN [8/8] AC INPUT (PE0071A2)

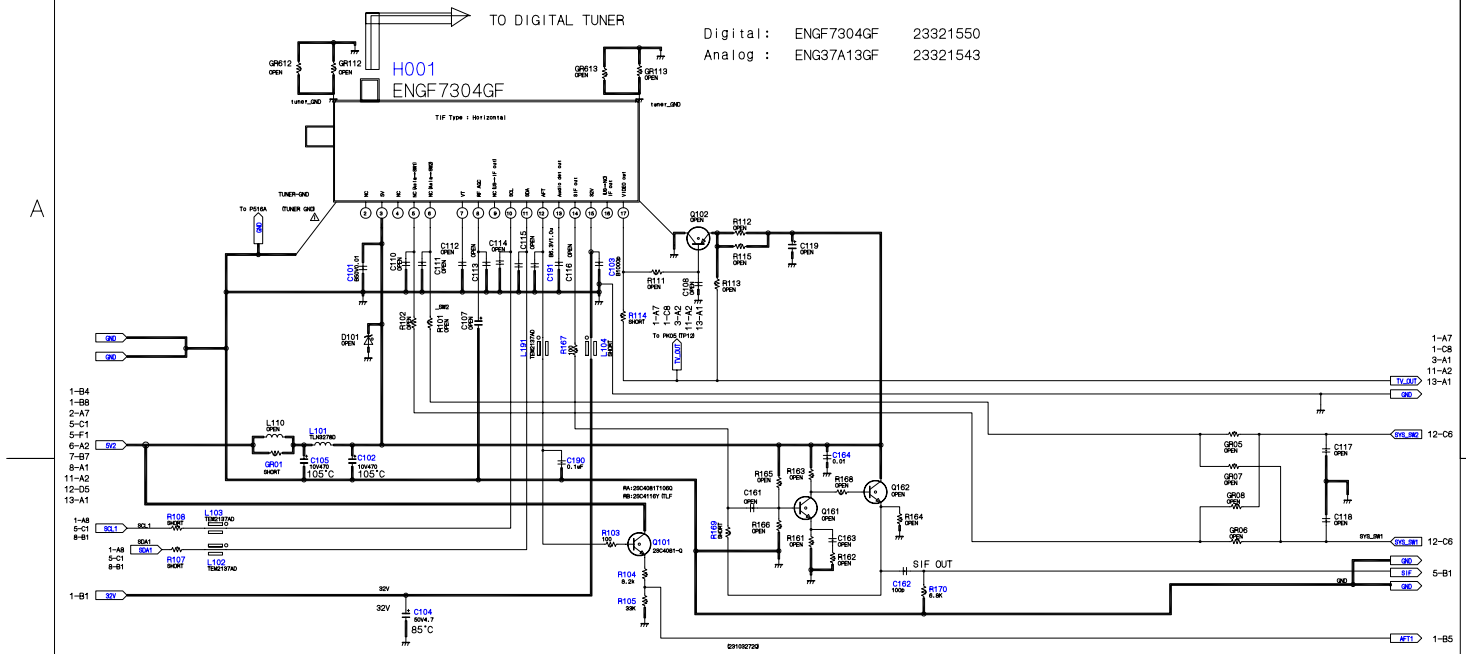


U02A LOW B [1/2] CONNECTOR (PE0063C1)

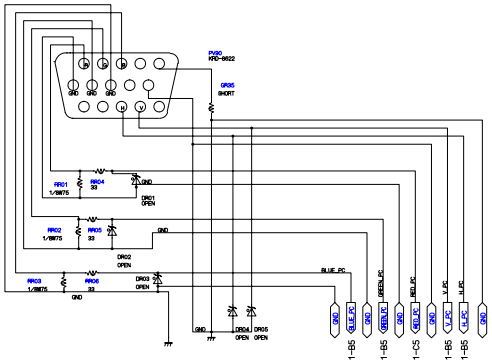

1
2
3
4
5
6
7
8
A
B
C
D
E
F
KETSU
PROTECT
POWER_DB
POWER_SIG
POWER_PROTECT
POWER
TO SET FAN
TO HDD FAN
U02A LOW B [2/2] (PE0063C1)


TO U02A LOW B [1/2] CONNECTOR (PE0063C1)
P810B → P810A
TO U02A LOW B [1/2] CONNECTOR (PE0063C1)
P803B → P803A
TO U03A SIGNAL [27/29] LVDS CONNECTOR (PE0081C1)
PJ80A → PJ80
TO U03A SIGNAL [20/29] AUDIO (PE0081C1)
PJ24A → PJ24
TO U03A SIGNAL [1/29] ANALOG_IN (PE0081C1)
PJ22A → PJ22
TO DIGITAL BOARD
PJ201 PJ202
I²C
FROM TUNER
TP-12 TUNER GND
TO SPK
TO U02B FRONT AV [14/17] FRONT-AV (PE0029A2)
PV25B → PV25A
TO U02C LED [15/17] LED (PE0029A3)
PA01A → PA01B
U02A AV TERMINAL [1/17] CONNECTOR (PE0029A1)

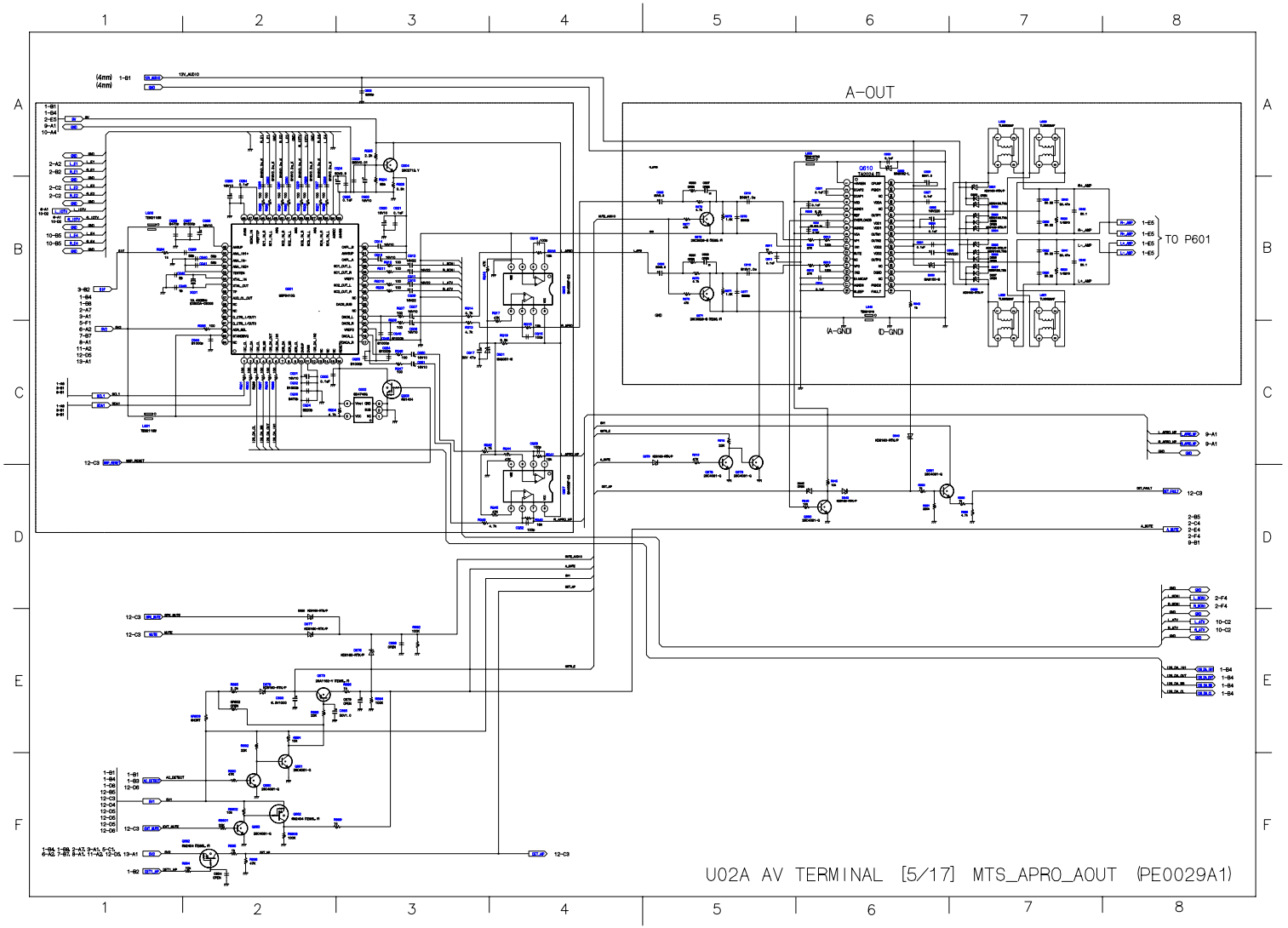

E1
E2
E3
U02A AV TERMINAL [2/17] AV JACK (PE0029A1)

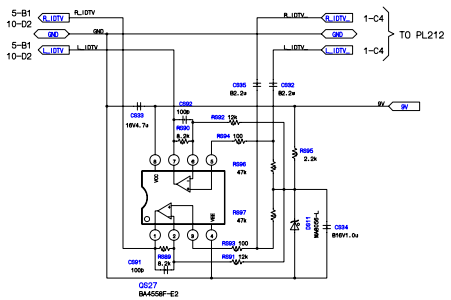

TO DIGITAL TUNER
Digital: ENGF7304GF 23321550
Analog : ENG37A13GF 23321543
H001
ENGF7304GF
TIF Type : Horizontal
SIF OUT
U02A AV TERMINAL [3/17] TUNER (PE0029A1)

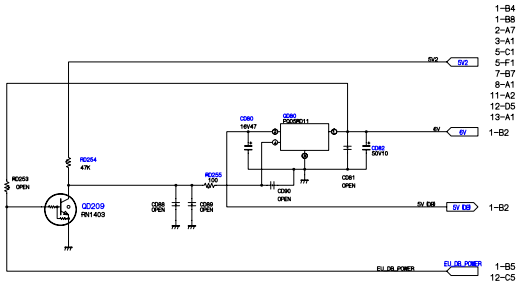
PC-DSUB



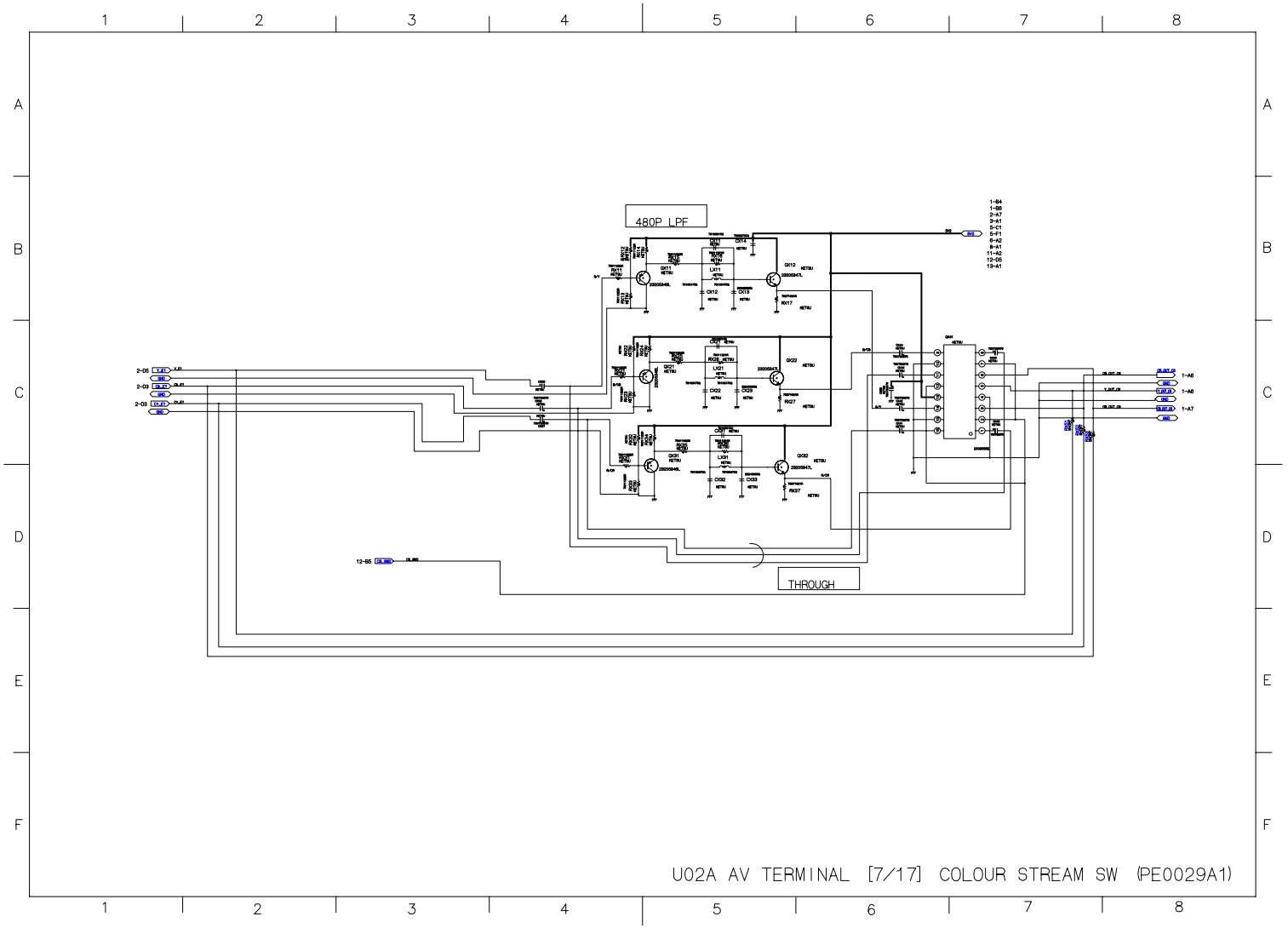
U02A AV TERMINAL [4/17] PC-INPUT (PE0029A1)


A-OUT
TO P601
U02A AV TERMINAL [5/17] MTS_APRO_AOUT (PE0029A1)

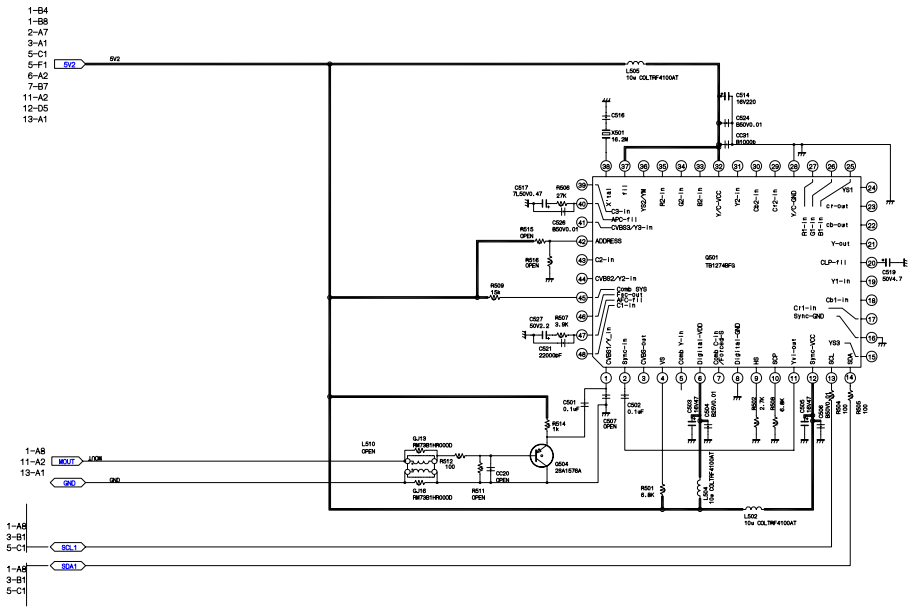




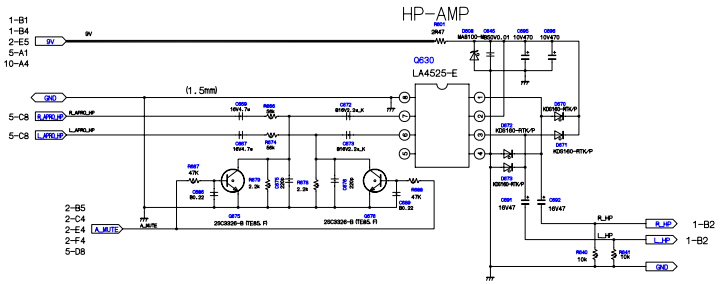
U02A AV TERMINAL [6/17] EU_DIGITAL_INTERFACE (PE0029A1)



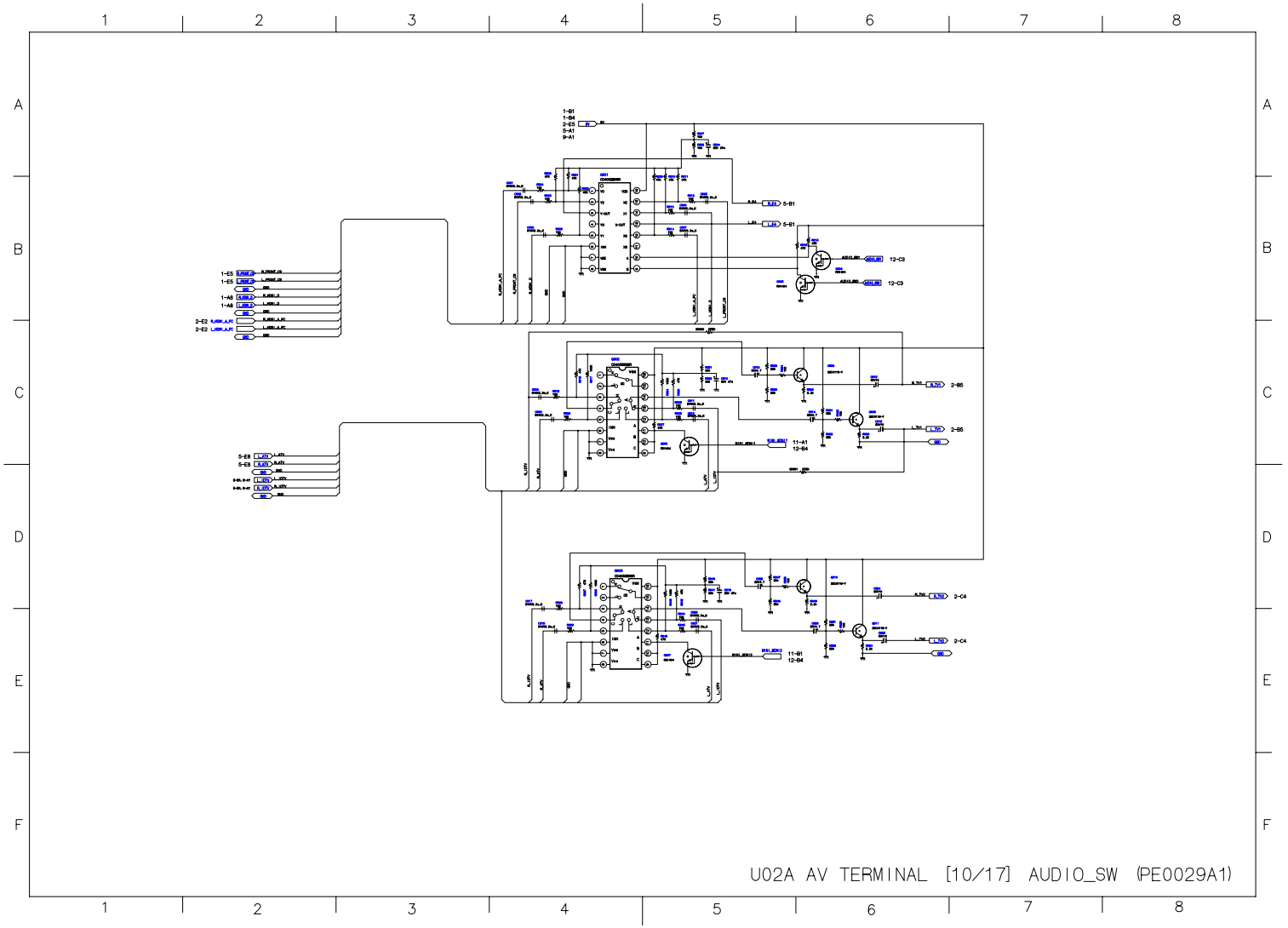
U02A AV TERMINAL [7/17] COLOUR STREAM SW (PE0029A1)

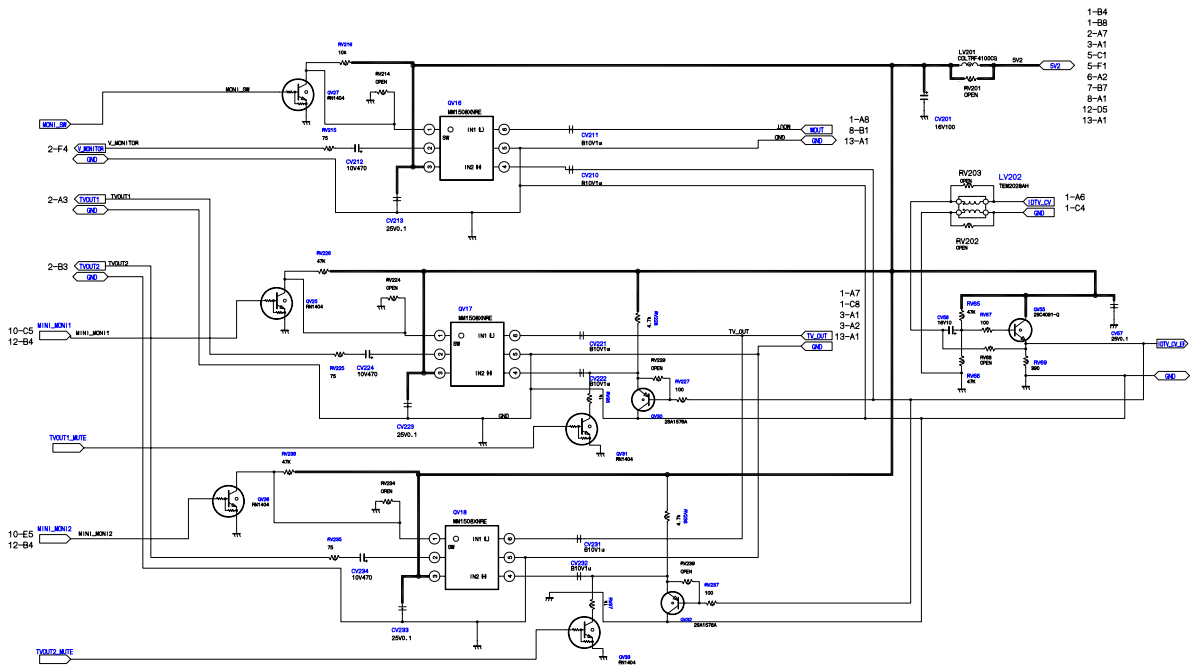


U02A AV TERMINAL [8/17] COLOUR_DECORDER (PE0029A1)

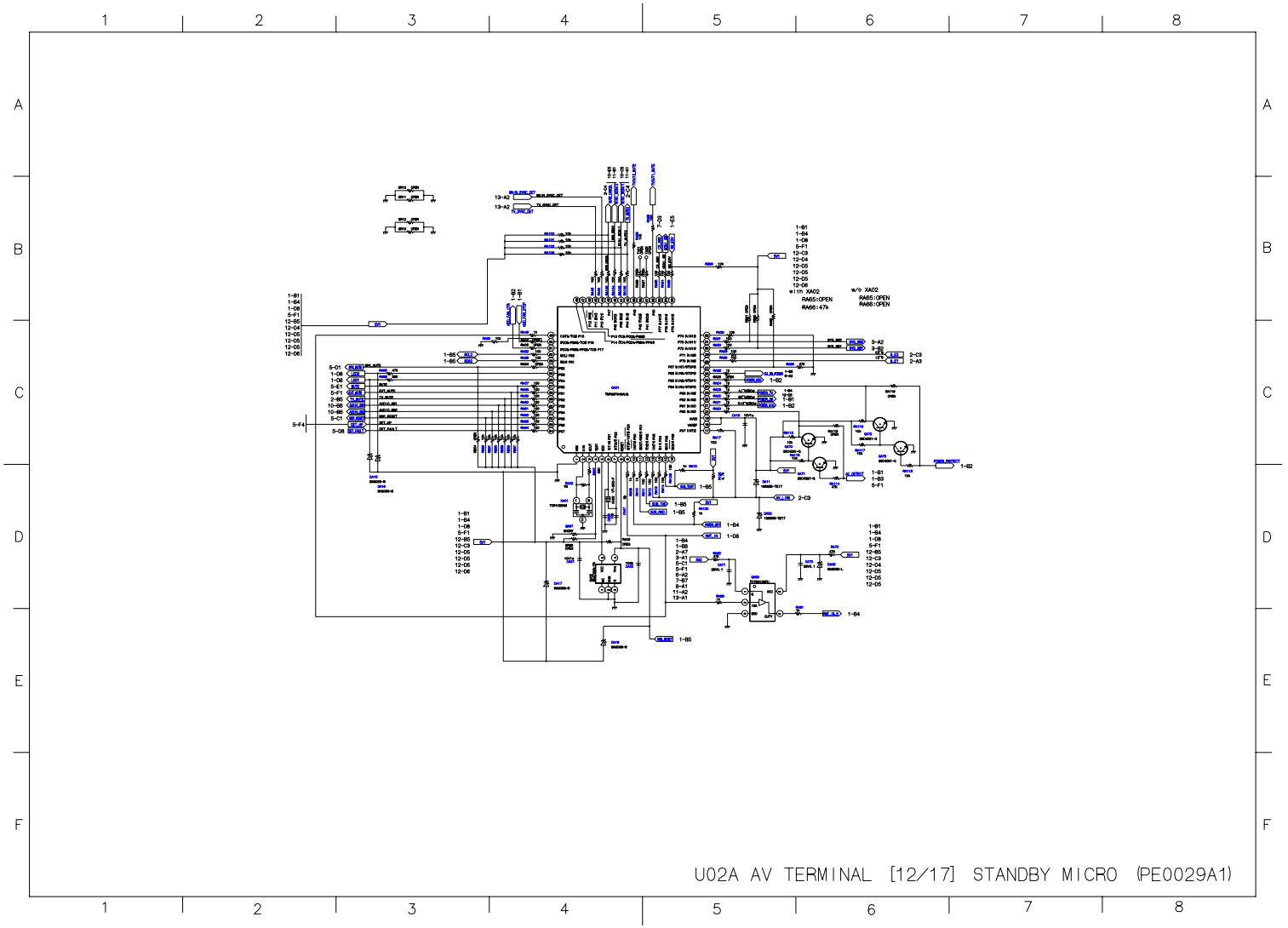


U02A AV TERMINAL [9/17] HEADPHONE_AMP (PE0029A1)

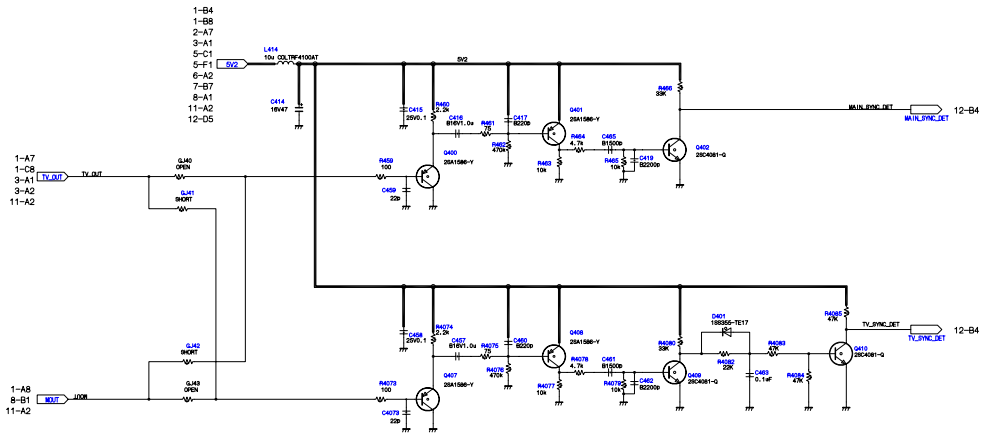

U02A AV TERMINAL [10/17] AUDIO_SW (PE0029A1)



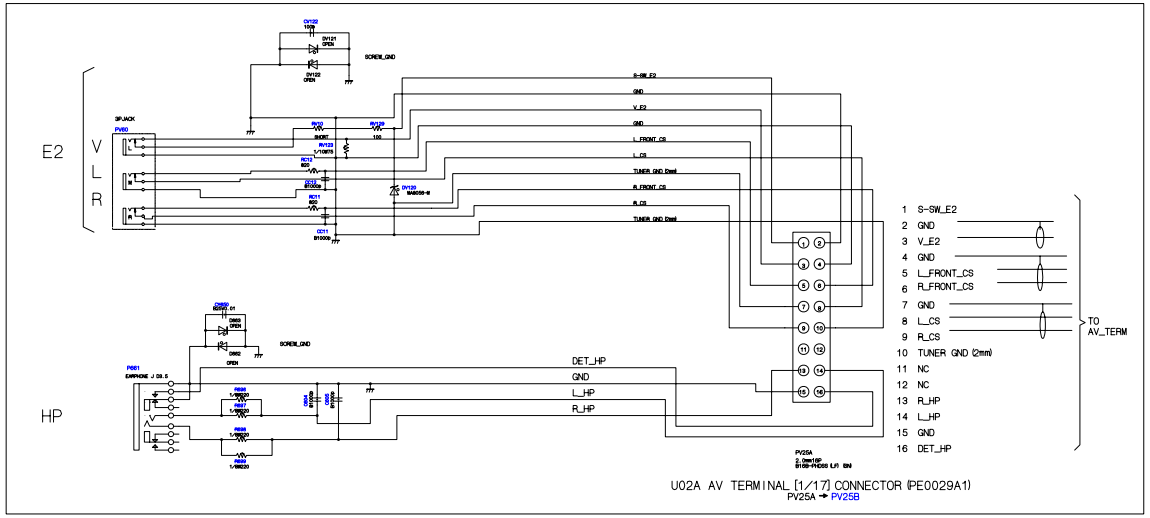
U02A AV TERMINAL [11/17] TV-OUT&MONI-OUT (PE0029A1)



U02A AV TERMINAL [12/17] STANDBY MICRO (PE0029A1)

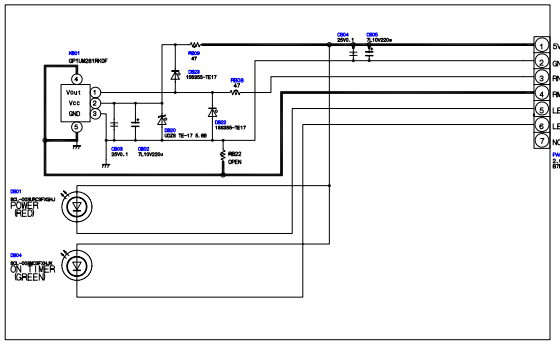


U02A AV TERMINAL [13/17] SYNC_DET (PE0029A1)



U02A AV TERMINAL [1/17] CONNECTOR (PE0029A1)
PV25A → PV25B

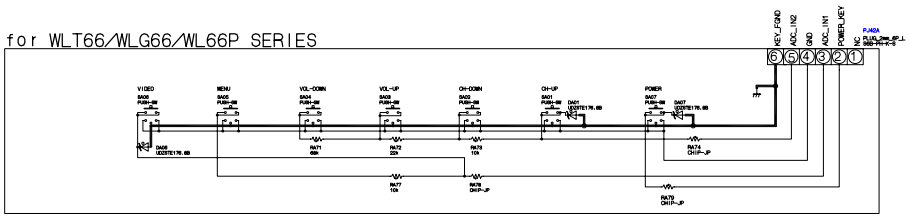
U02B FRONT AV [14/17] FRONT-AV (PE0029A2)



U02C LED [15/17] LED (PE0029A3)

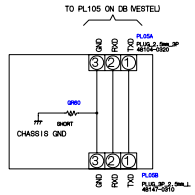
TO U03A SIGNAL [14/29] E2P ROM OTHER (PE0081C1)
PJ42A → PJ42

for WLT66/WLG66/WL66P SERIES

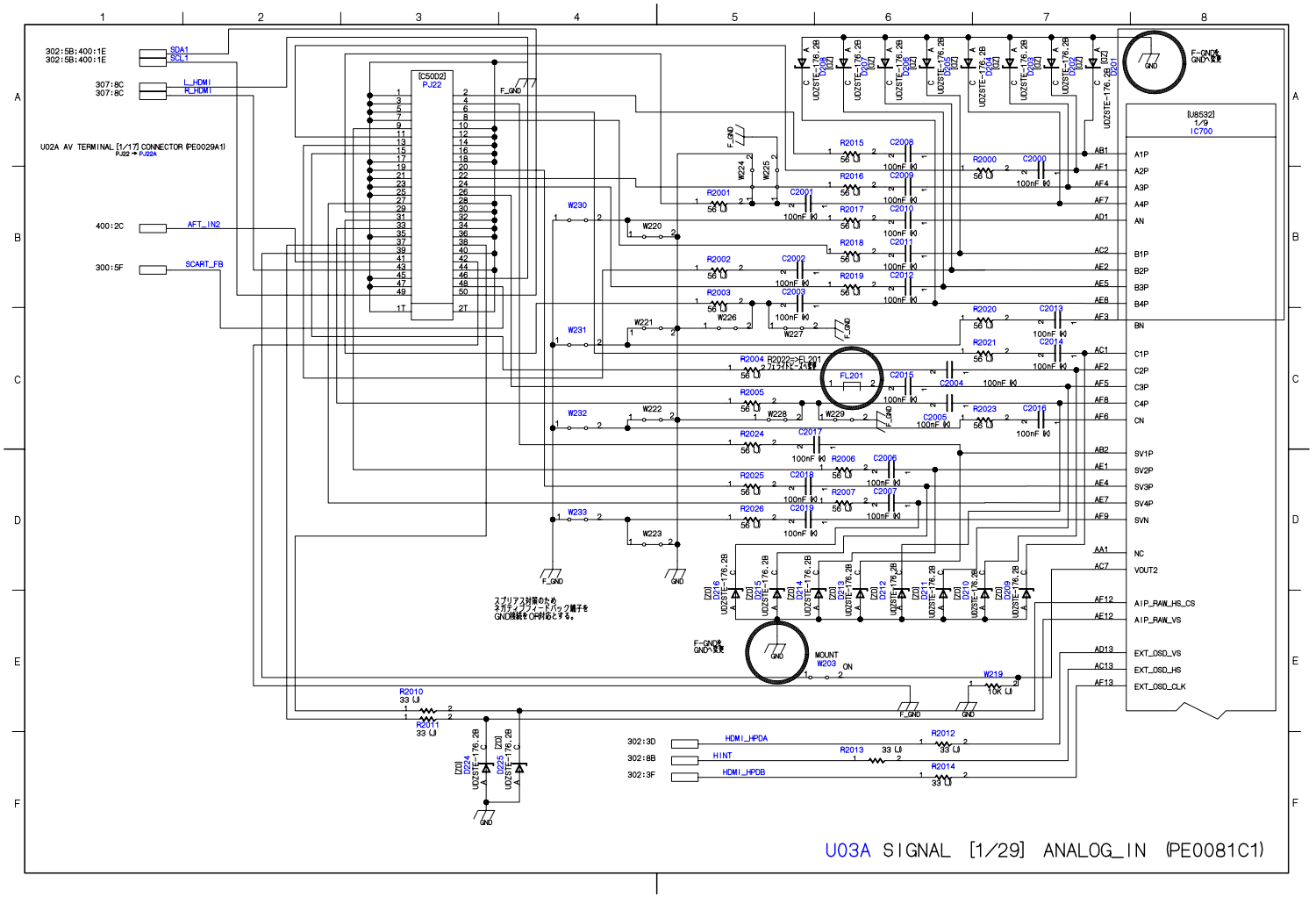


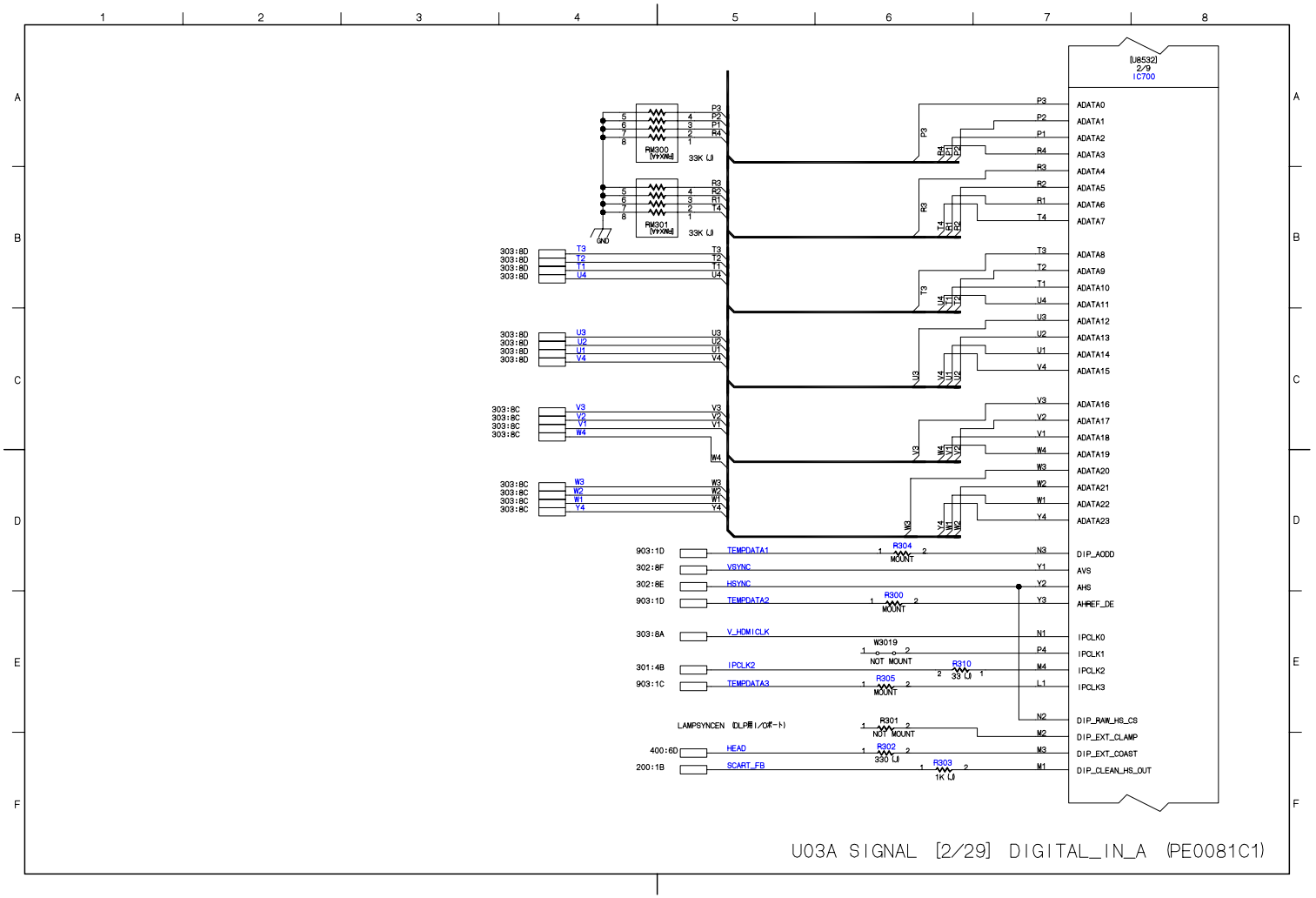
U02E 7-KEY [16/17] KEY (PE0029A5)

for WLT66 and WLG66 SERIES

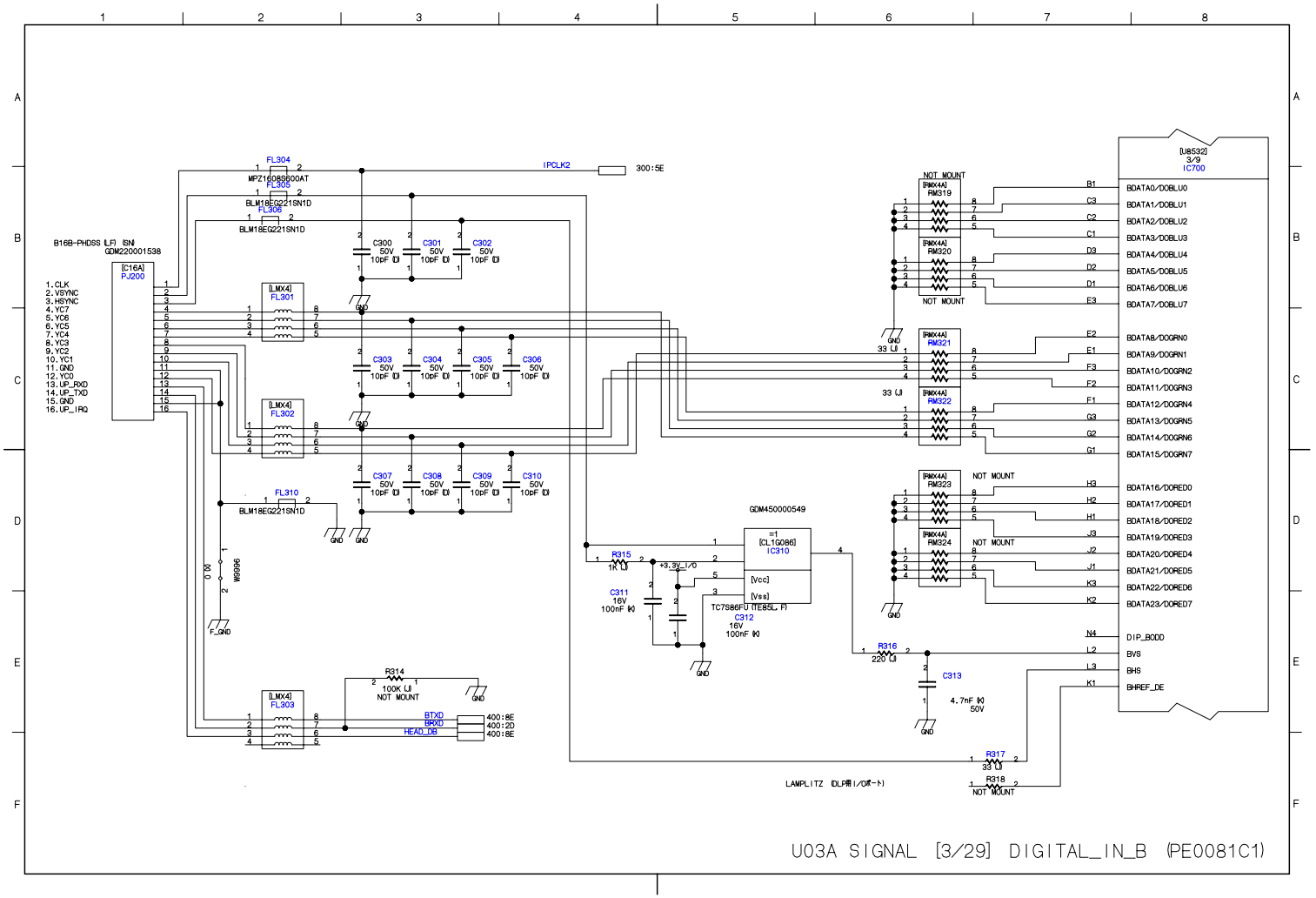


U02F DB_DOWNLOAD [17/17] DB DOWNLOAD (PE0029A6)

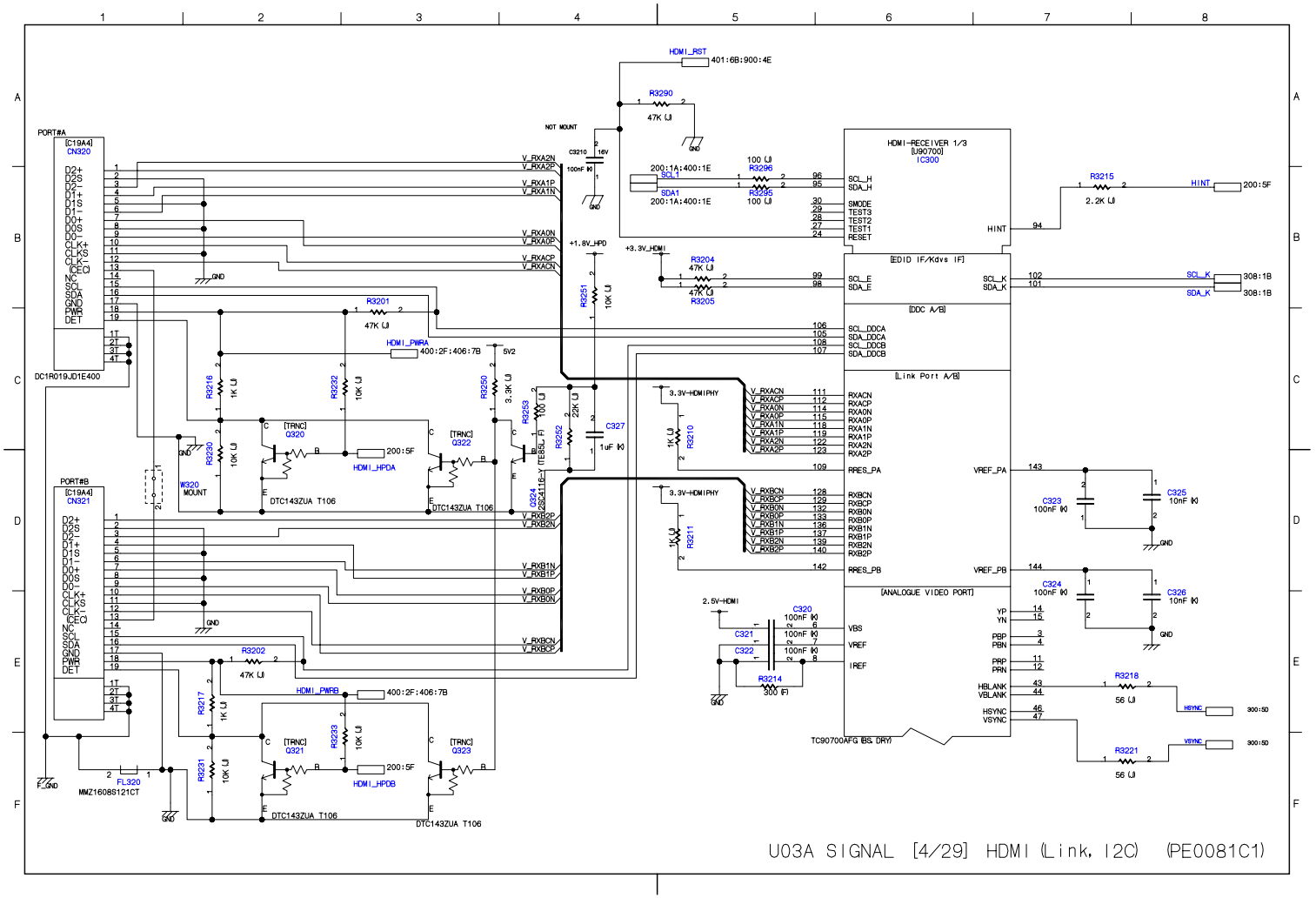

U03A SIGNAL [1/29] ANALOG_IN (PE0081C1)
U02A AV TERMINAL [1/17] CONNECTOR (PE0029A1)
SDA1
SCL1
L_HDMI
R_HDMI
AFT_IN2
SCART_FB
HDMI_HPDA
HINT
HDMI_HPDB
FL201
MOUNT
W203
AIP_RAW_HS_CS
AIP_RAW_VS
EXT_OSD_VS
EXT_OSD_HS
EXT_OSD_CLK
VOUT2
NC
SV1P
SV2P
SV3P
SV4P
SVN
C1P
C2P
C3P
C4P
CN
BN
B1P
B2P
B3P
B4P
AN
A1P
A2P
A3P
A4P
F_GND
GND

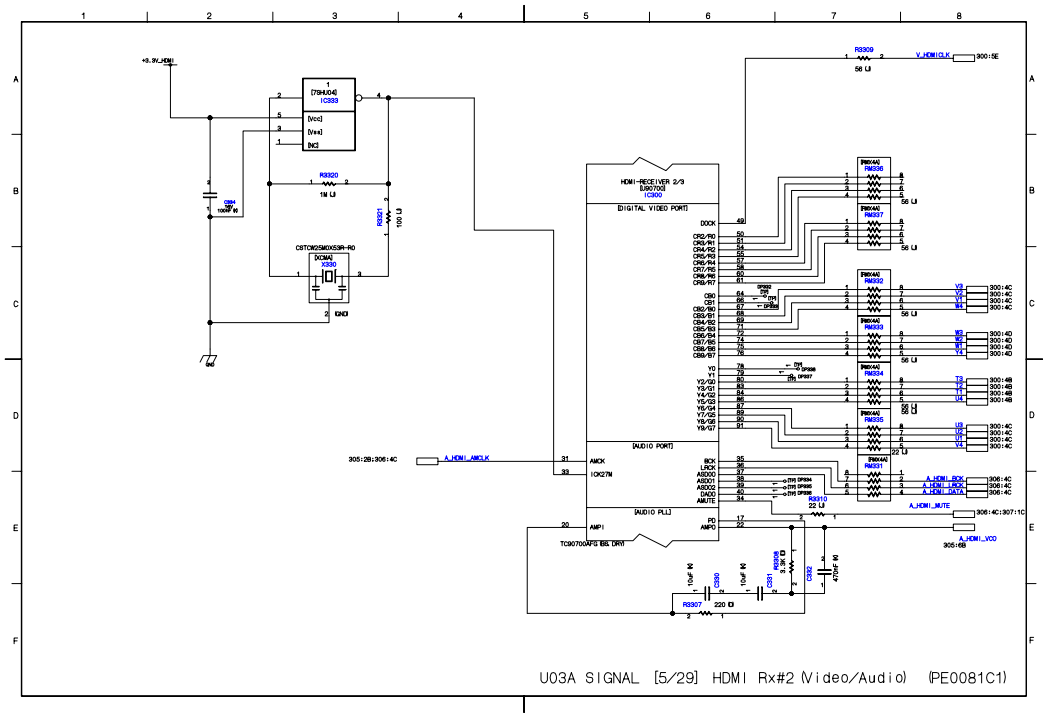


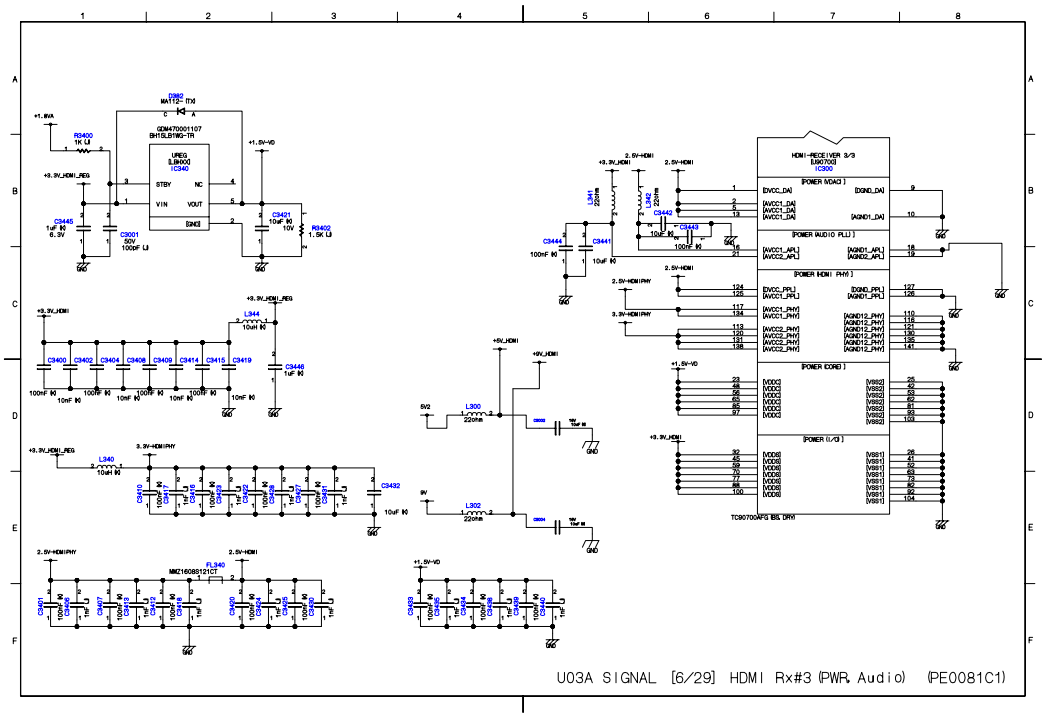
U03A SIGNAL [2/29] DIGITAL_IN_A (PE0081C1)

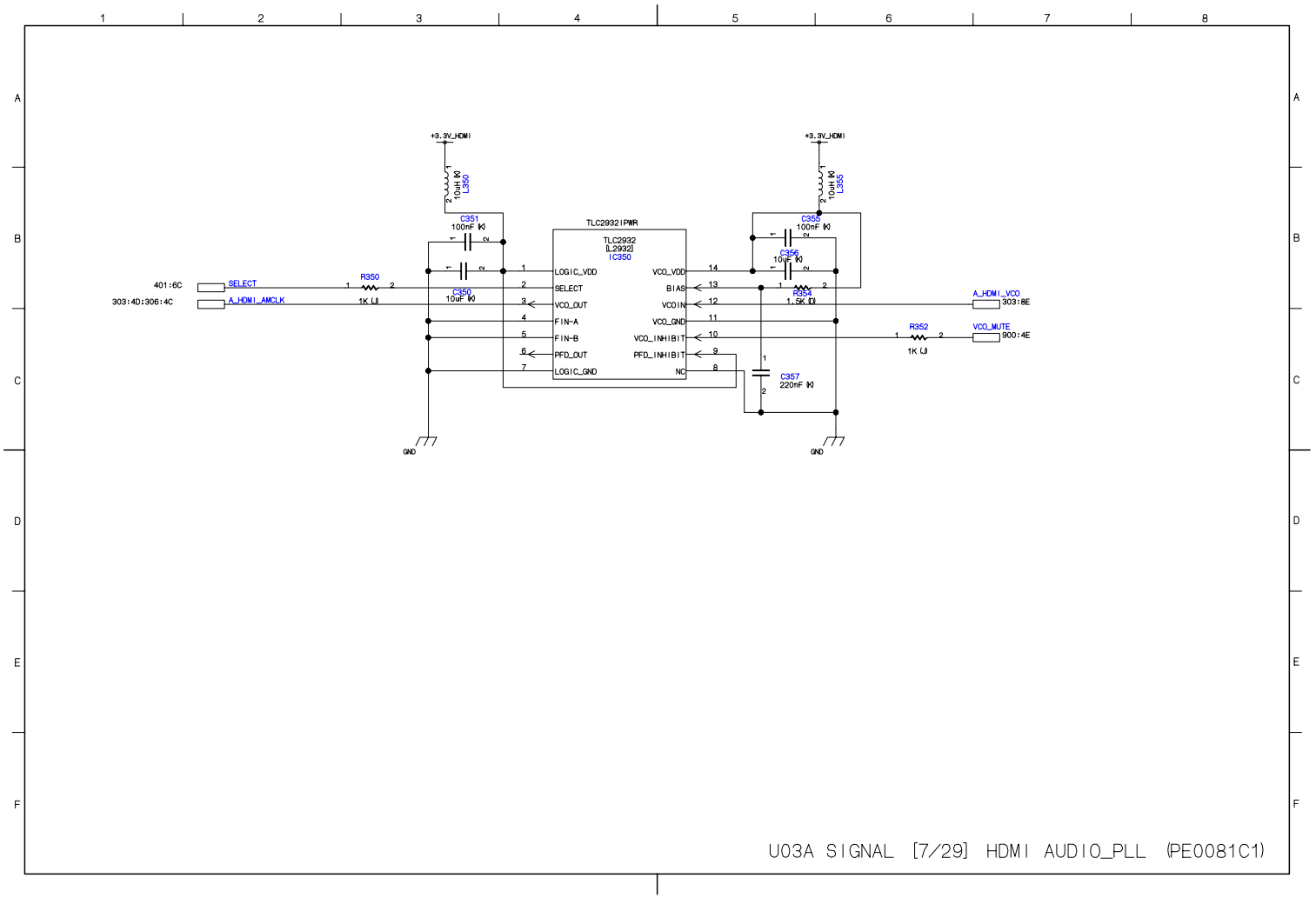


U03A SIGNAL [3/29] DIGITAL_IN_B (PE0081C1)

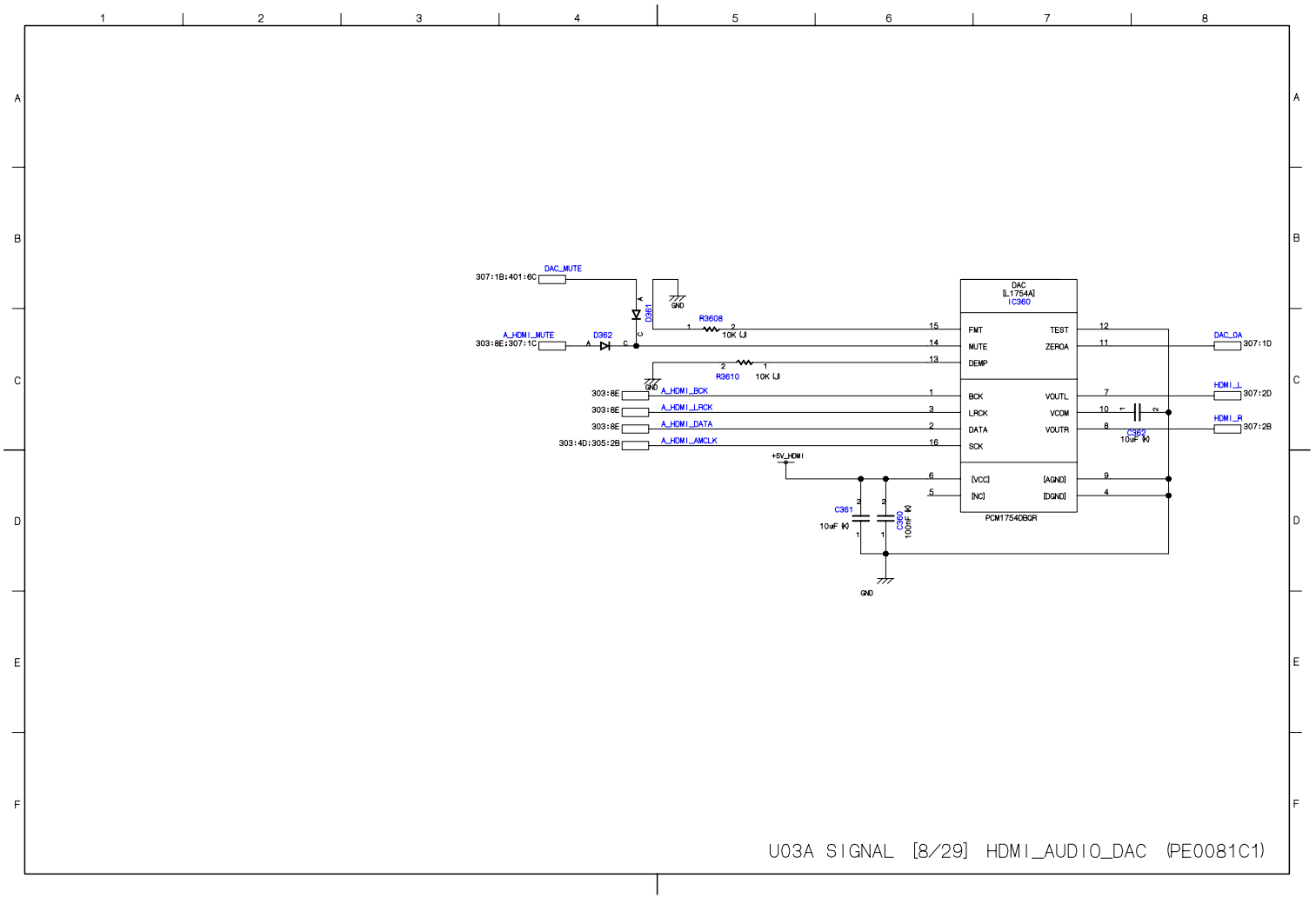

HDMI_RST
401:6B:900:4E
R3290
47K (J)
NOT MOUNT
C3210
16V
100nF (K)
HDMI-RECEIVER 1/3
[U90700]
IC300
SCL1
SDA1
200:1A:400:1E
R3296
R3295
100 (J)
SCL_H
SDA_H
SMODE
TEST3
TEST2
TEST1
RESET
HINT
R3215
2.2K (J)
HINT
200:5F
[EDID IF/Kdvs IF]
+3.3V_HDMI
R3204
47K (J)
R3205
SCL_E
SDA_E
SCL_K
SDA_K
308:1B
[DDC A/B]
SCL_DDCA
SDA_DDCA
SCL_DDCB
SDA_DDCB
[Link Port A/B]
+1.8V_HPD
R3251
10K (J)
3.3V-HDMIPHY
R3210
R3211
1K (J)
V_RXACN
V_RXACP
V_RXA0N
V_RXA0P
V_RXA1N
V_RXA1P
V_RXA2N
V_RXA2P
RXACN
RXACP
RXA0N
RXA0P
RXA1N
RXA1P
RXA2N
RXA2P
RRES_PA
V_RXBCN
V_RXBCP
V_RXB0N
V_RXB0P
V_RXB1N
V_RXB1P
V_RXB2N
V_RXB2P
RXBCN
RXBCP
RXB0N
RXB0P
RXB1N
RXB1P
RXB2N
RXB2P
RRES_PB
[ANALOGUE VIDEO PORT]
VREF_PA
VREF_PB
C323
100nF (K)
C325
10nF (K)
C324
100nF (K)
C326
10nF (K)
2.5V-HDMI
C320
C321
C322
100nF (K)
VBS
VREF
IREF
R3214
300 (F)
YP
YN
PBP
PBN
PRP
PRN
HBLANK
VBLANK
HSYNC
VSYNC
R3218
56 (J)
R3221
HSYNC
VSYNC
300:5D
TC90700AFG (BS, DRY)
PORT#A
[C19A4]
CN320
DC1R019JD1E400
PORT#B
[C19A4]
CN321
R3201
R3202
47K (J)
HDMI_PWRA
HDMI_PWRB
400:2F:406:7B
5V2
R3216
R3217
1K (J)
R3232
R3233
10K (J)
R3250
3.3K (J)
R3253
100 (J)
R3252
22K (J)
C327
1uF (K)
R3230
R3231
10K (J)
[TRNC]
Q320
Q321
Q322
Q323
DTC143ZUA T106
HDMI_HPDA
HDMI_HPDB
200:5F
W320
MOUNT
FL320
MMZ1608B121CT
F_GND
GND
U03A SIGNAL [4/29] HDMI (Link, I2C) (PE0081C1)


HDMI-RECEIVER 2/3
[U90700]
IC3900
[DIGITAL VIDEO PORT]
[AUDIO PORT]
[AUDIO PLL]
TC90700AFG EB DRY
R3909
56 Ω
V_HDMI1CLK
300:5E
R3900
1M Ω
R3901
100 Ω
CSTCW25M0X53R-R0
X3901
A_HDMI_AMCLK
305:2B;306:4C
R3910
22 Ω
A_HDMI_MUTE
306:4C;307:1C
A_HDMI_VCO
305:6B
R3907
220 Ω
U03A SIGNAL [5/29] HDMI Rx#2 (Video/Audio) (PE0081C1)

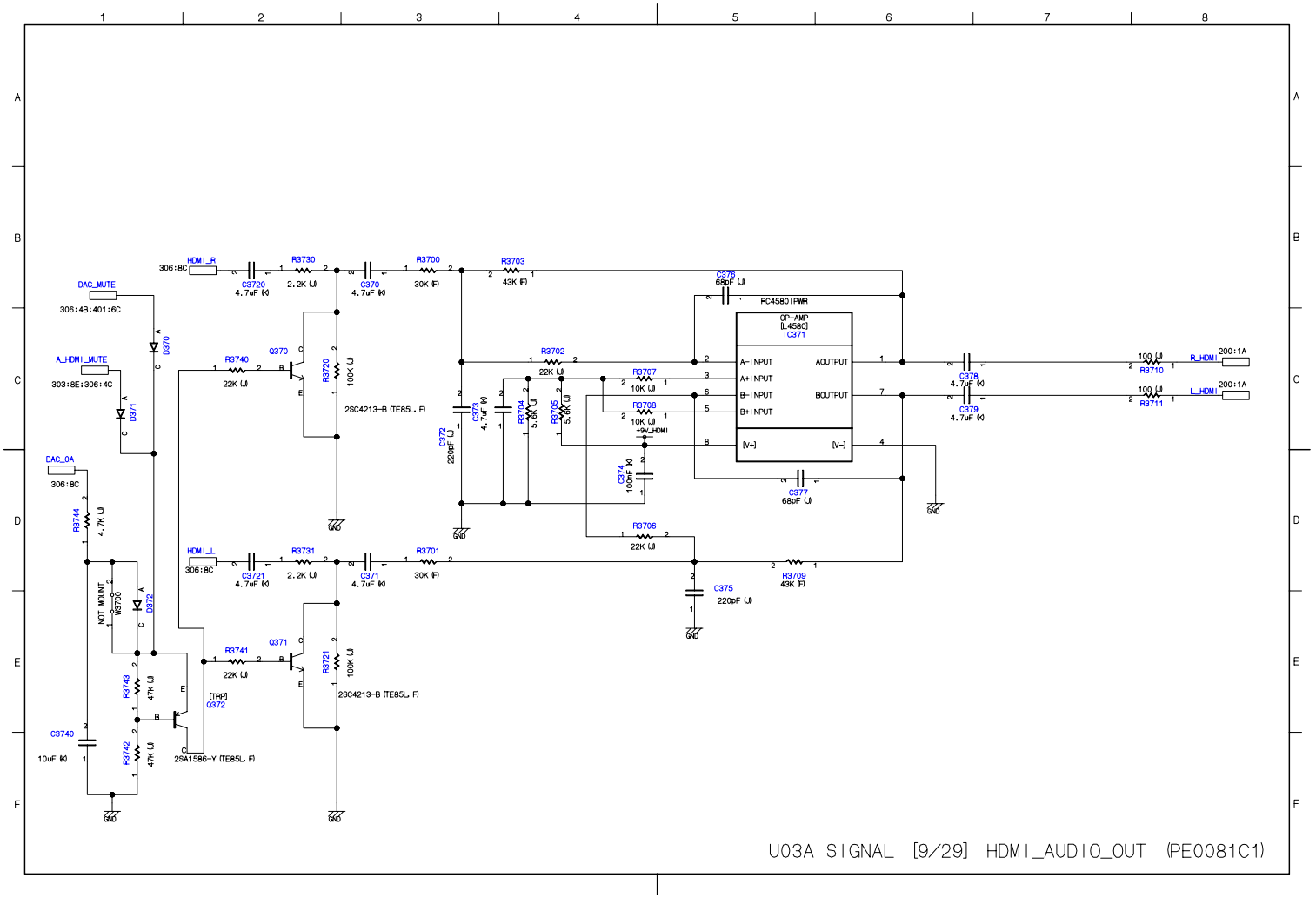

U03A SIGNAL [6/29] HDMI Rx#3 (PWR, Audio) (PE0081C1)



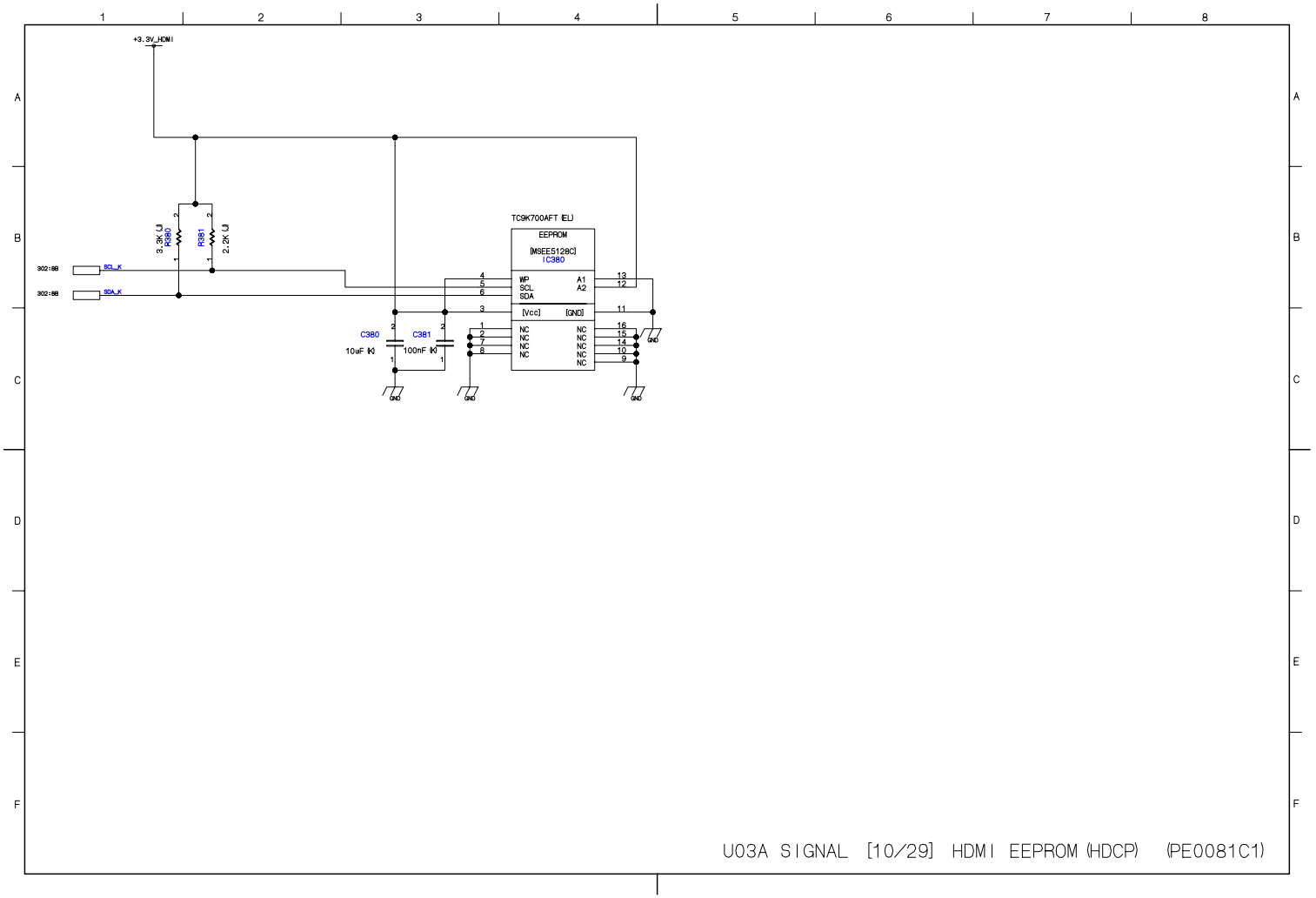
U03A SIGNAL [7/29] HDMI AUDIO_PLL (PE0081C1)



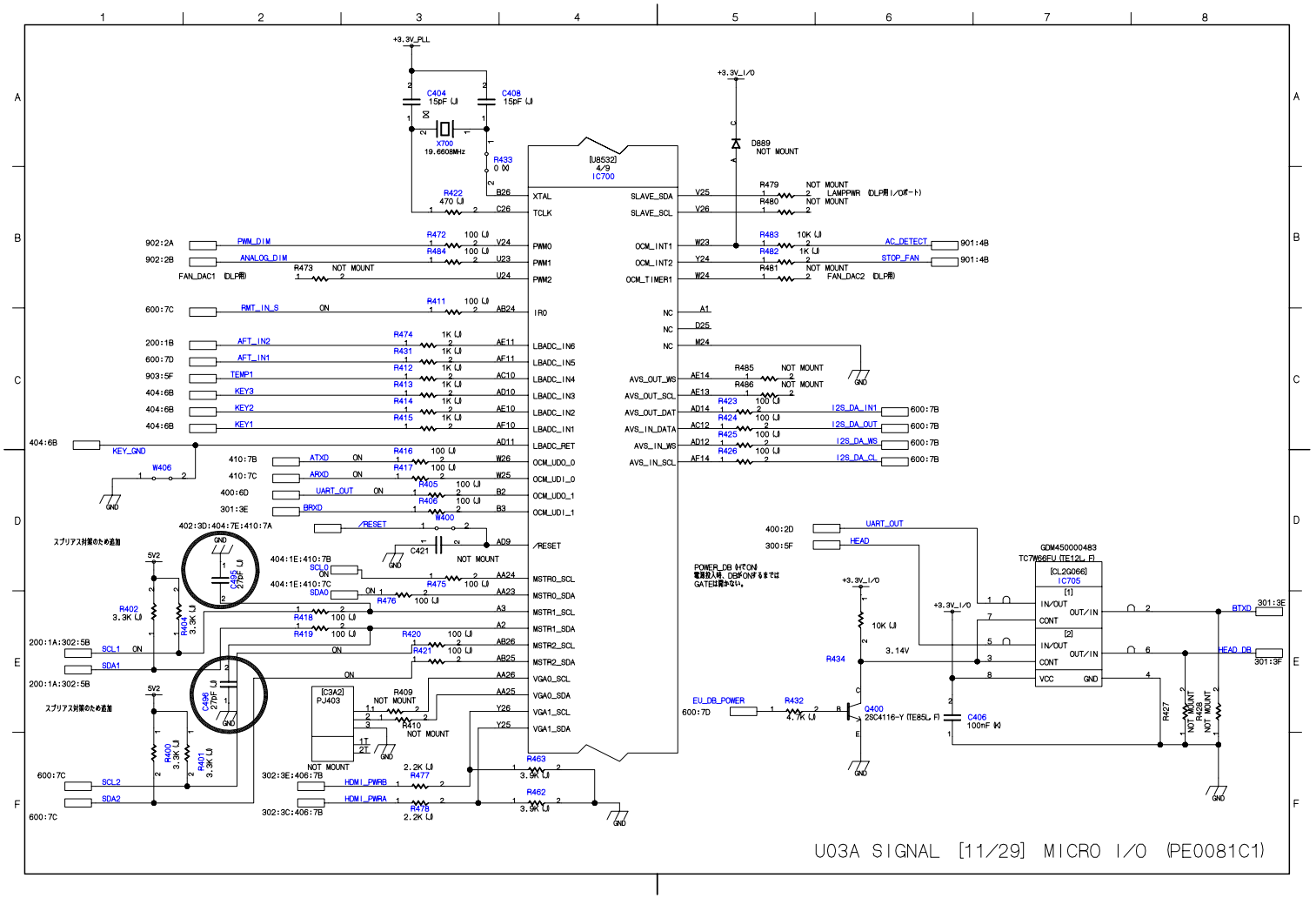
U03A SIGNAL [8/29] HDMI_AUDIO_DAC (PE0081C1)

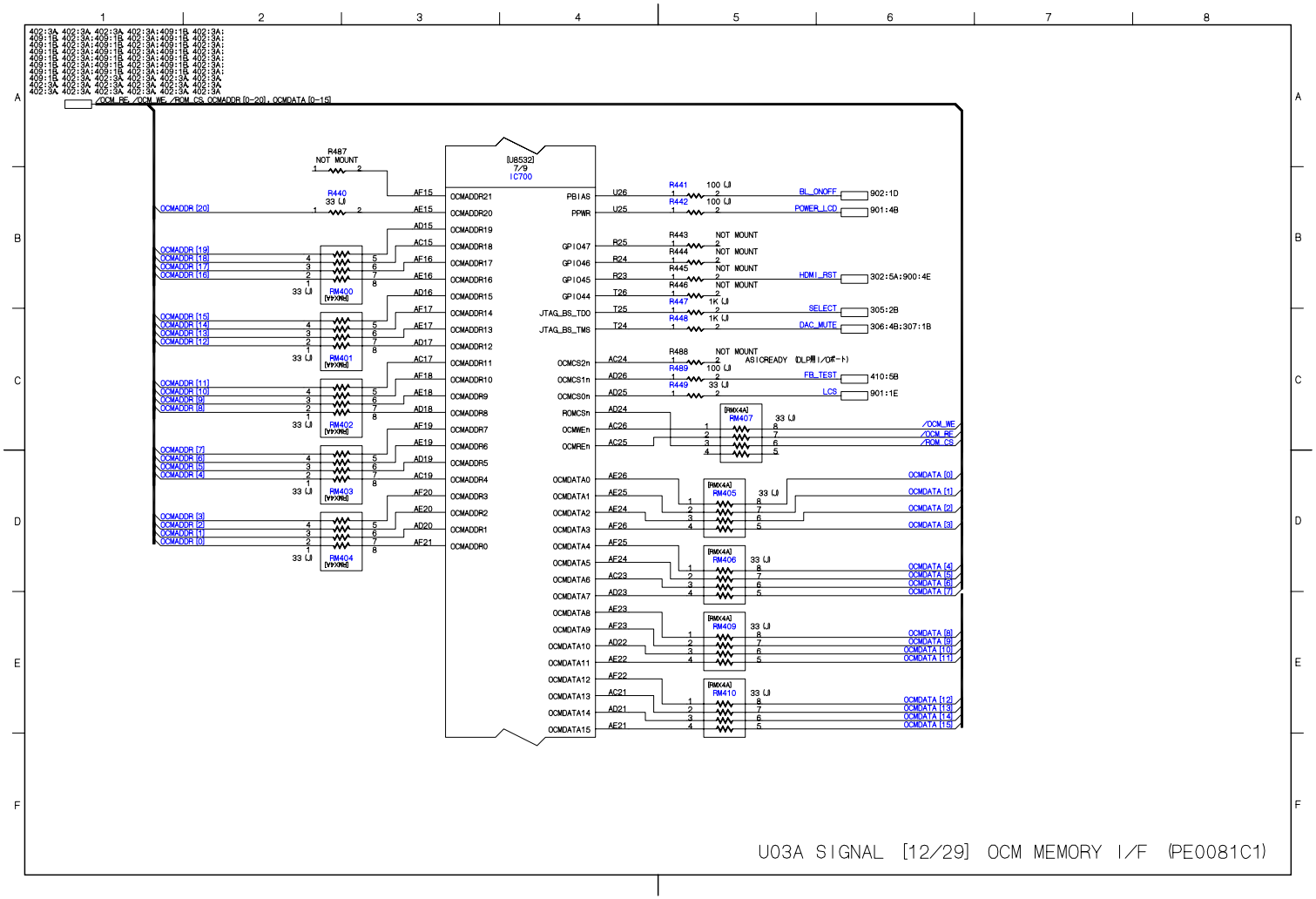


U03A SIGNAL [9/29] HDMI_AUDIO_OUT (PE0081C1)

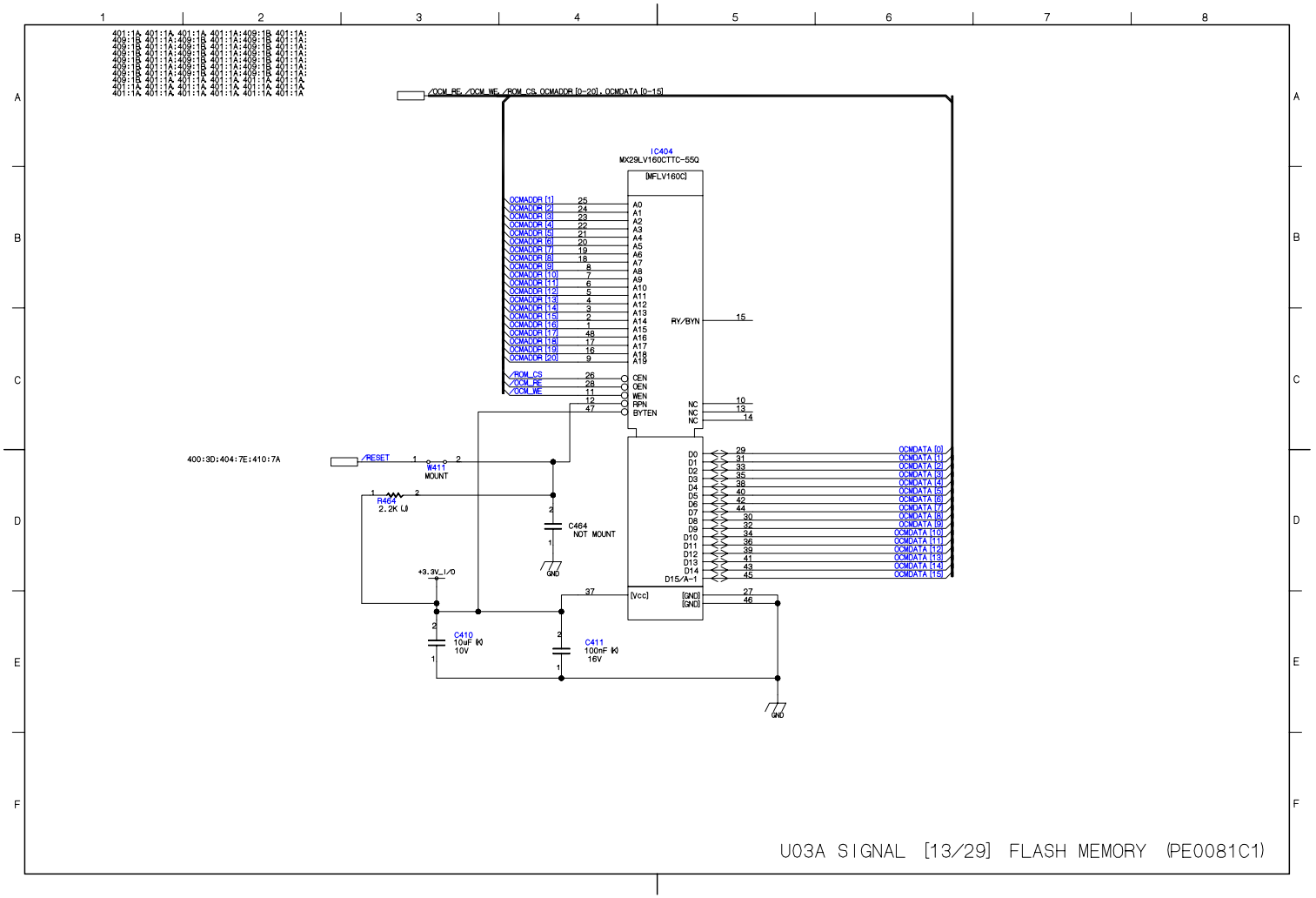


U03A SIGNAL [10/29] HDMI EEPROM (HDCP) (PE0081C1)

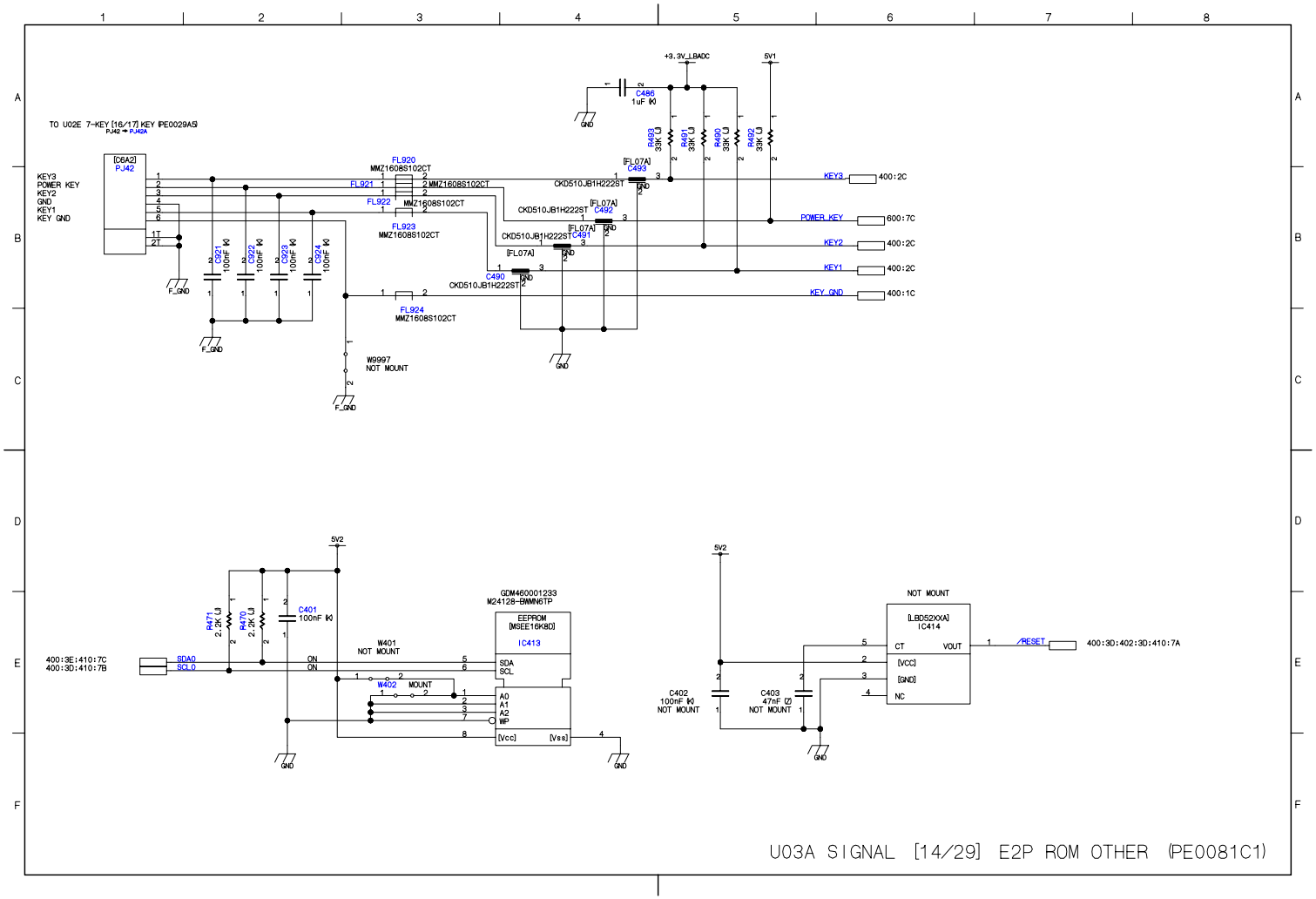

+3.3V_PLL
C404 15pF (J)
C408 15pF (J)
X700 19.6608MHz
R433 0 (X)
[U8532] 4/9 IC700
R422 470 (J)
XTAL
TCLK
+3.3V_I/O
D889 NOT MOUNT
SLAVE_SDA
SLAVE_SCL
R479 NOT MOUNT LAMPPWR (DLP用 I/Oポート)
R480 NOT MOUNT
902:2A PWM_DIM
902:2B ANALOG_DIM
FAN_DAC1 (DLP用)
R472 100 (J)
R484 100 (J)
R473 NOT MOUNT
PWM0
PWM1
PWM2
OCM_INT1
OCM_INT2
OCM_TIMER1
R483 10K (J)
R482 1K (J)
R481 NOT MOUNT FAN_DAC2 (DLP用)
AC_DETECT
STOP_FAN
901:4B
600:7C RMT_IN_S ON
R411 100 (J)
IR0
NC
NC
NC
200:1B AFT_IN2
600:7D AFT_IN1
903:5F TEMP1
404:6B KEY3
404:6B KEY2
404:6B KEY1
R474 1K (J)
R431 1K (J)
R412 1K (J)
R413 1K (J)
R414 1K (J)
R415 1K (J)
LBADC_IN6
LBADC_IN5
LBADC_IN4
LBADC_IN3
LBADC_IN2
LBADC_IN1
LBADC_RET
R485 NOT MOUNT
R486 NOT MOUNT
AVS_OUT_WS
AVS_OUT_SCL
AVS_OUT_DAT
AVS_IN_DATA
AVS_IN_WS
AVS_IN_SCL
R423 100 (J)
R424 100 (J)
R425 100 (J)
R426 100 (J)
I2S_DA_IN1
I2S_DA_OUT
I2S_DA_WS
I2S_DA_CL
600:7B
600:7B
600:7B
600:7B
404:6B KEY_GND
W406
410:7B ATXD ON
410:7C ARXD ON
400:6D UART_OUT ON
301:3E BRXD
R416 100 (J)
R417 100 (J)
R405 100 (J)
R406 100 (J)
W400
OCM_UDO_0
OCM_UDI_0
OCM_UDO_1
OCM_UDI_1
402:3D:404:7E:410:7A /RESET
C421 NOT MOUNT
/RESET
スプリアス対策のため追加
C405 27pF (J)
404:1E:410:7B SCL0 ON
404:1E:410:7C SDA0 ON
R475 100 (J)
R476 100 (J)
MSTR0_SCL
MSTR0_SDA
MSTR1_SCL
MSTR1_SDA
MSTR2_SCL
MSTR2_SDA
VGA0_SCL
VGA0_SDA
VGA1_SCL
VGA1_SDA
R402 3.3K (J)
R404 3.3K (J)
R418 100 (J)
R419 100 (J)
R420 100 (J)
R421 100 (J)
200:1A:302:5B SCL1 ON
SDA1
C406 27pF (J)
ON
R409 NOT MOUNT
R410 NOT MOUNT
[C3A2] PJ403
R407 3.3K (J)
R401 3.3K (J)
600:7C SCL2
SDA2
600:7C
302:3E:406:7B HDMI_PWRB
302:3C:406:7B HDMI_PWRA
R477 2.2K (J)
R478 2.2K (J)
R463 3.9K (J)
R462 3.9K (J)
400:2D UART_OUT
300:5F HEAD
POWER_DB ※ITON時 電源投入時、DBがONする までは GATE出力しない。
GDM450000483 TC7W66FU (TE12L, F) [CL2G066] IC705
[1] IN/OUT OUT/IN CONT
[2] IN/OUT OUT/IN CONT
VCC GND
BTXD 301:3E
HEAD_DB 301:3F
+3.3V_I/O
10K (J)
3.14V
R434
EU_DB_POWER 600:7D
R432 4.7K (J)
Q400 2SC4116-Y (TE85L, F)
C406 100nF (K)
R427 NOT MOUNT
R428 NOT MOUNT
GND
U03A SIGNAL [11/29] MICRO I/O (PE0081C1)



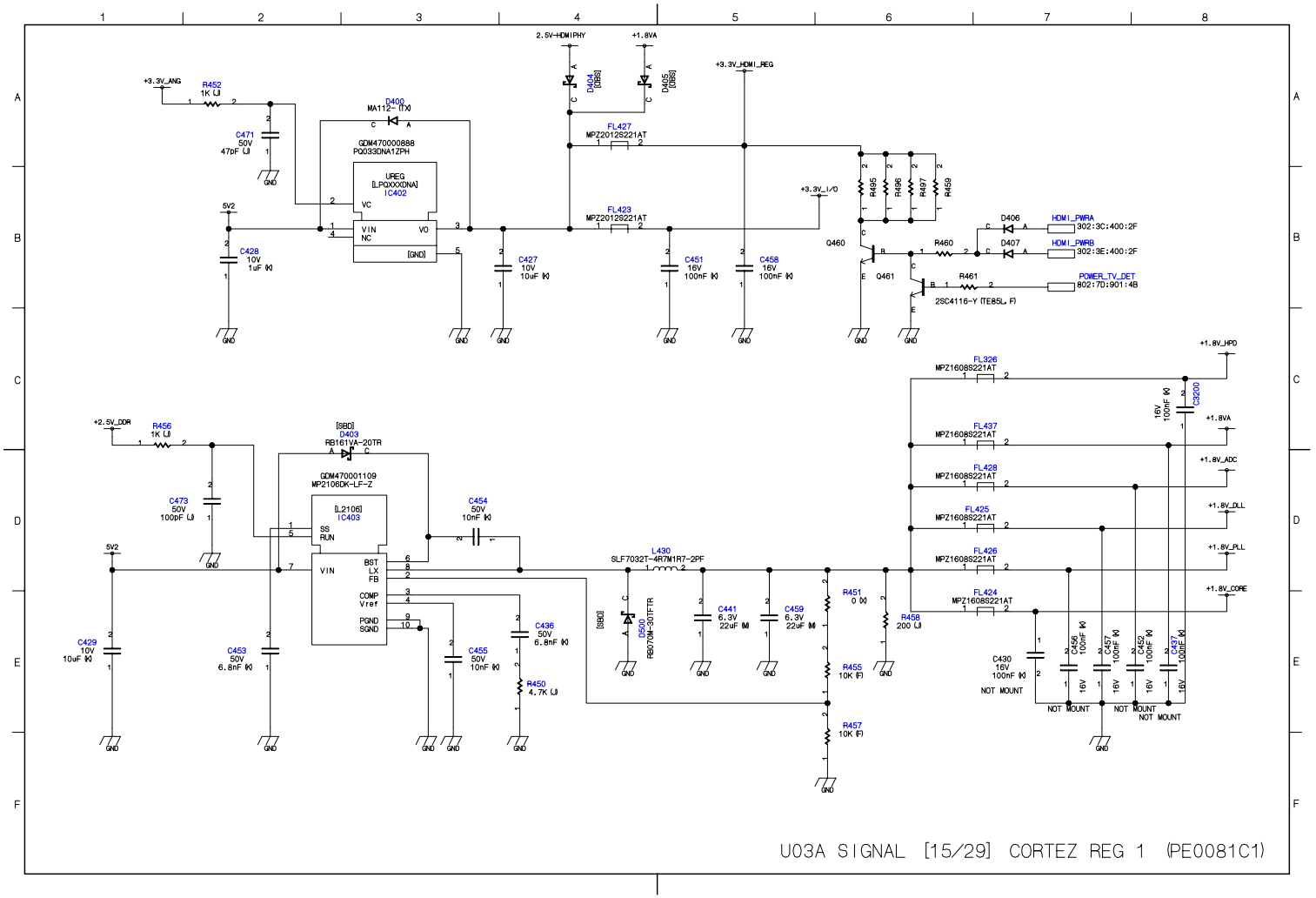
U03A SIGNAL [12/29] OCM MEMORY I/F (PE0081C1)

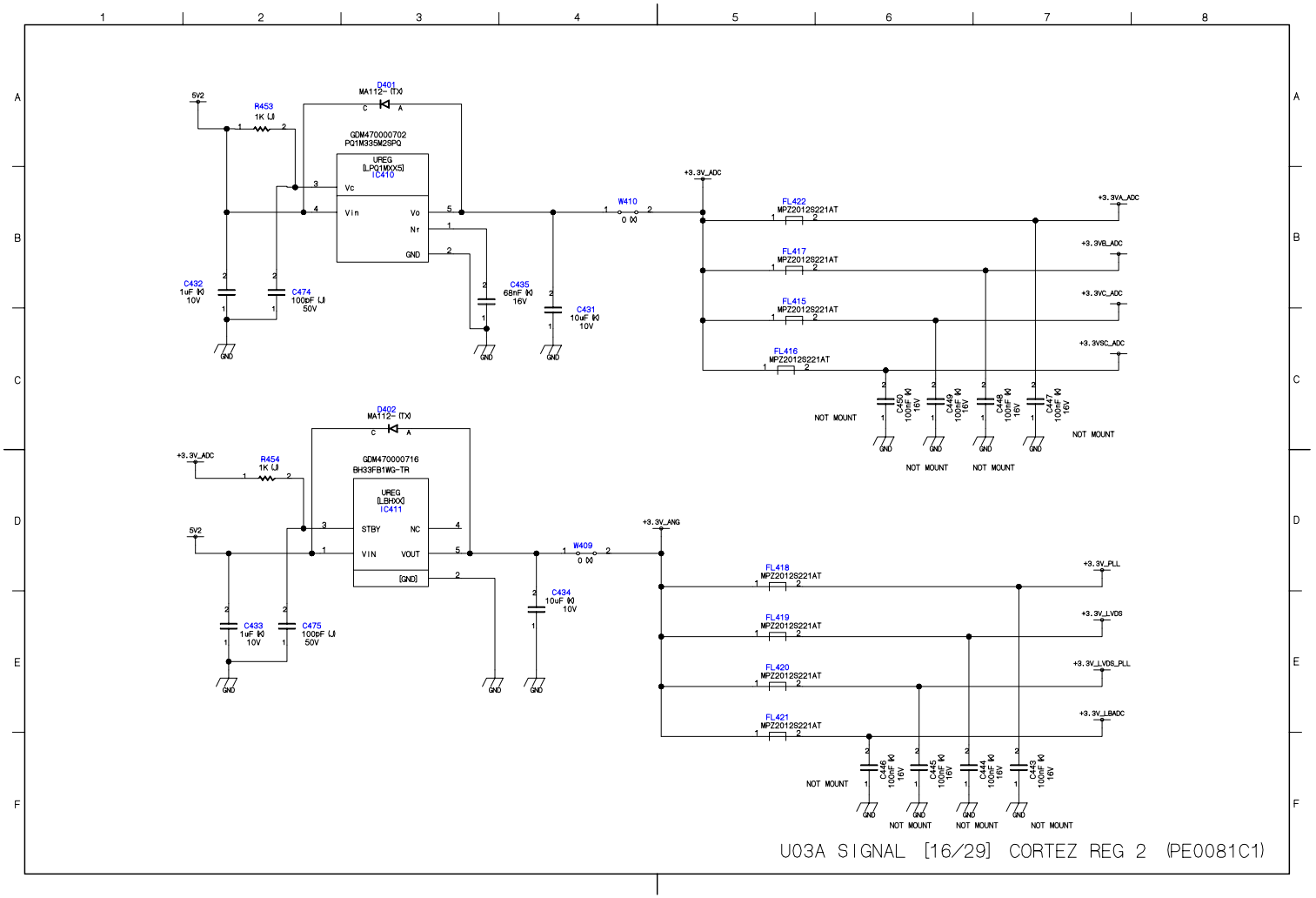


U03A SIGNAL [13/29] FLASH MEMORY (PE0081C1)

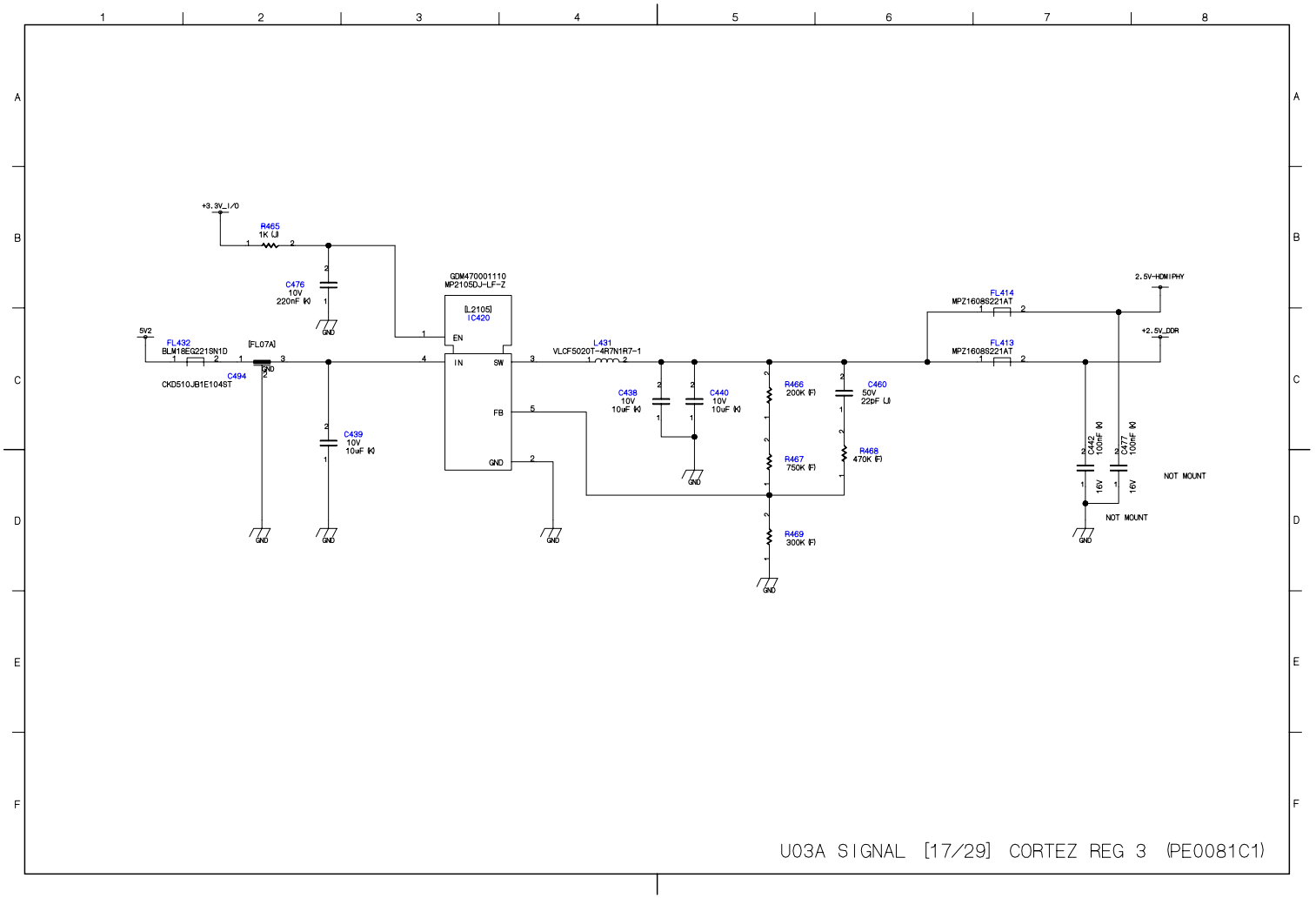


U03A SIGNAL [14/29] E2P ROM OTHER (PE0081C1)

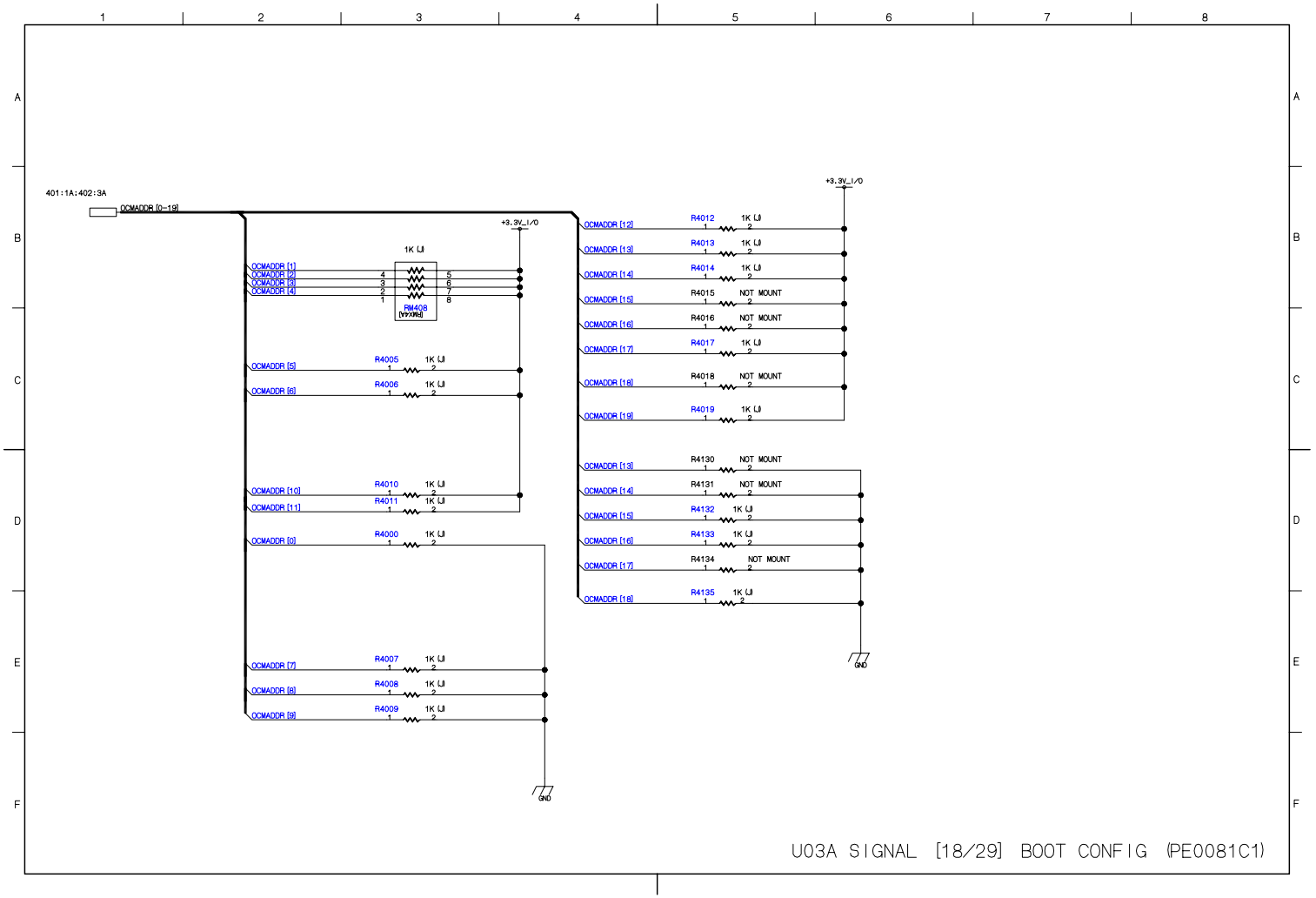

2.5V_HDMIPHY
+1.8VA
+3.3V_HDMI_REG
+3.3V_ANG
R452
1K (J)
D400
MA112-(TX)
C471
50V
47pF (J)
GDM470000888
PQ033DNA1ZPH
UREG
[LPQXXXDNA]
IC402
VC
VIN
NC
VO
[GND]
5V2
C428
10V
1uF (K)
C427
10V
10uF (K)
FL427
MPZ2012S221AT
FL423
MPZ2012S221AT
C451
16V
100nF (K)
C458
16V
100nF (K)
+3.3V_I/O
R495
R496
R497
R459
Q460
Q461
2SC4116-Y (TE85L, F)
R460
R461
D406
D407
HDMI_PWRA
302:3C:400:2F
HDMI_PWRB
302:3E:400:2F
POWER_TV_DET
802:7D:901:4B
+1.8V_HPD
FL326
MPZ1608S221AT
C3200
16V
100nF (K)
+1.8VA
FL437
MPZ1608S221AT
+1.8V_ADC
FL428
MPZ1608S221AT
+1.8V_DLL
FL425
MPZ1608S221AT
+1.8V_PLL
FL426
MPZ1608S221AT
+1.8V_CORE
FL424
MPZ1608S221AT
C430
16V
100nF (K)
NOT MOUNT
C456
100nF (K)
C457
100nF (K)
C452
100nF (K)
C437
100nF (K)
+2.5V_DDR
R456
1K (J)
[SBD]
D403
RB161VA-20TR
GDM470001109
MP2106DK-LF-Z
[L2106]
IC403
SS
RUN
VIN
BST
LX
FB
COMP
Vref
PGND
SGND
C473
50V
100pF (J)
C454
50V
10nF (K)
L430
SLF7032T-4R7M1R7-2PF
D500
RB070M-30TFTR
C441
6.3V
22uF (M)
C459
6.3V
22uF (M)
R451
0 (X)
R458
200 (J)
R455
10K (F)
R457
10K (F)
C429
10V
10uF (K)
C453
50V
6.8nF (K)
C455
50V
10nF (K)
C436
50V
6.8nF (K)
R450
4.7K (J)
GND
U03A SIGNAL [15/29] CORTEZ REG 1 (PE0081C1)

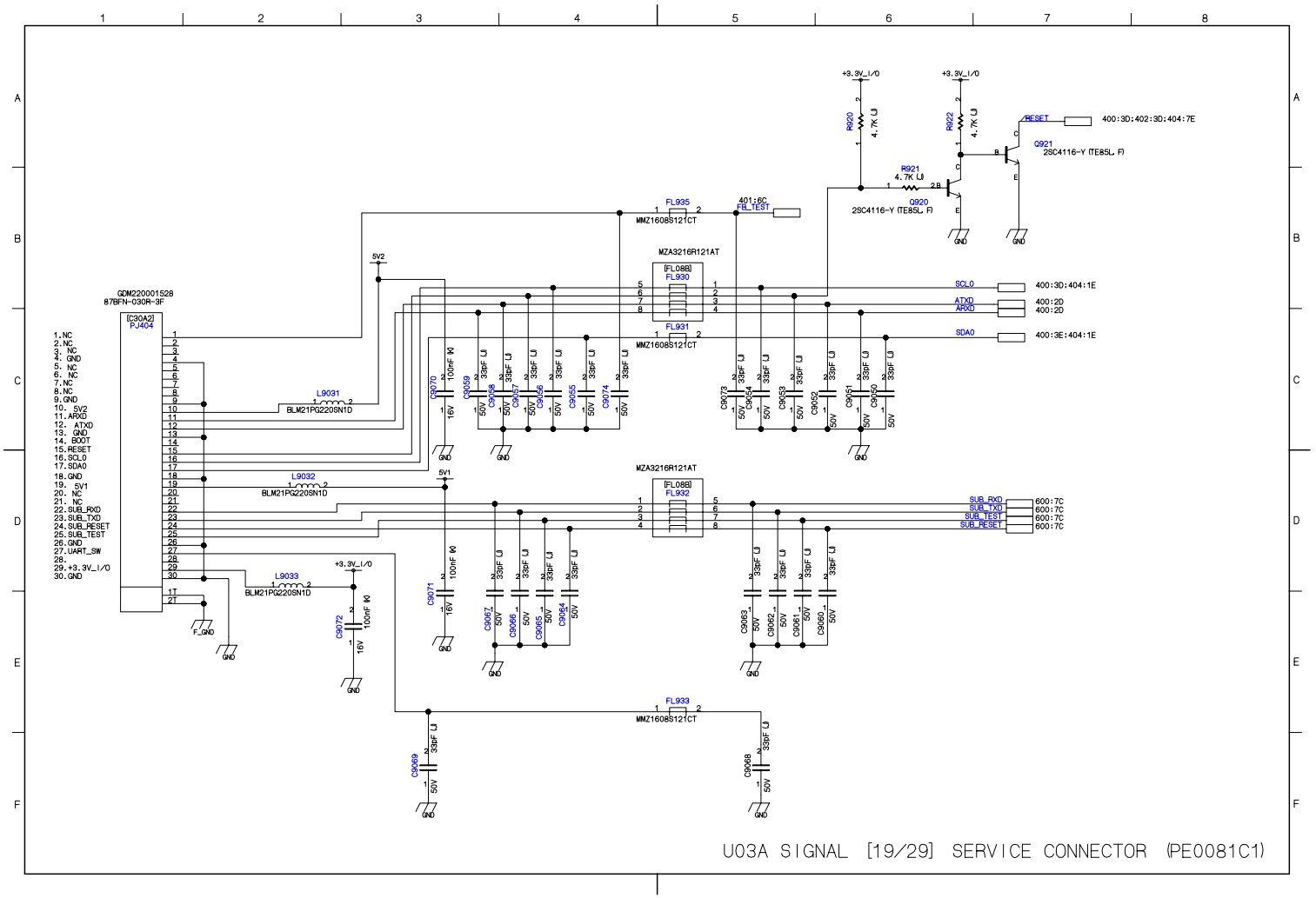


U03A SIGNAL [16/29] CORTEZ REG 2 (PE0081C1)

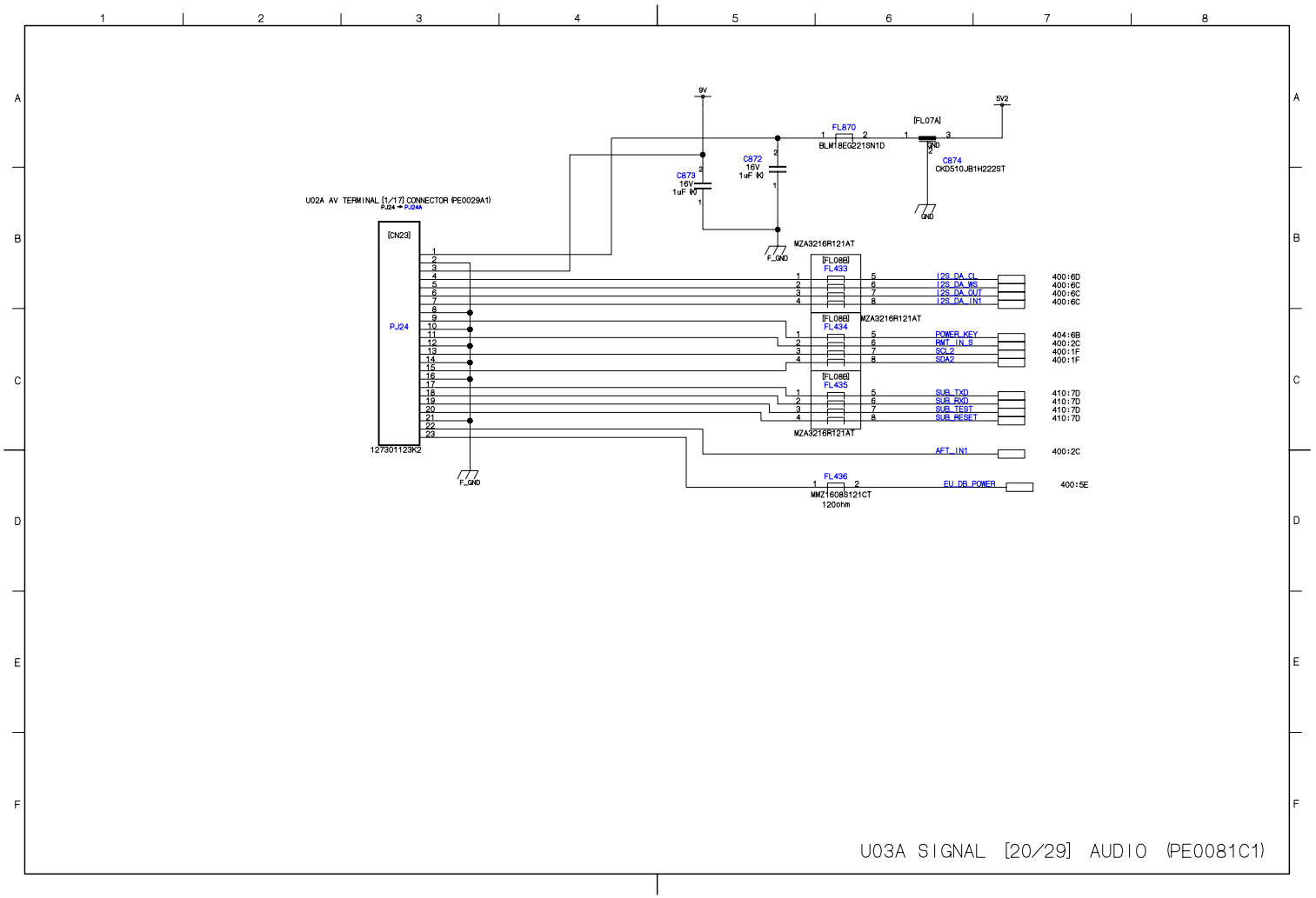


U03A SIGNAL [17/29] CORTEZ REG 3 (PE0081C1)

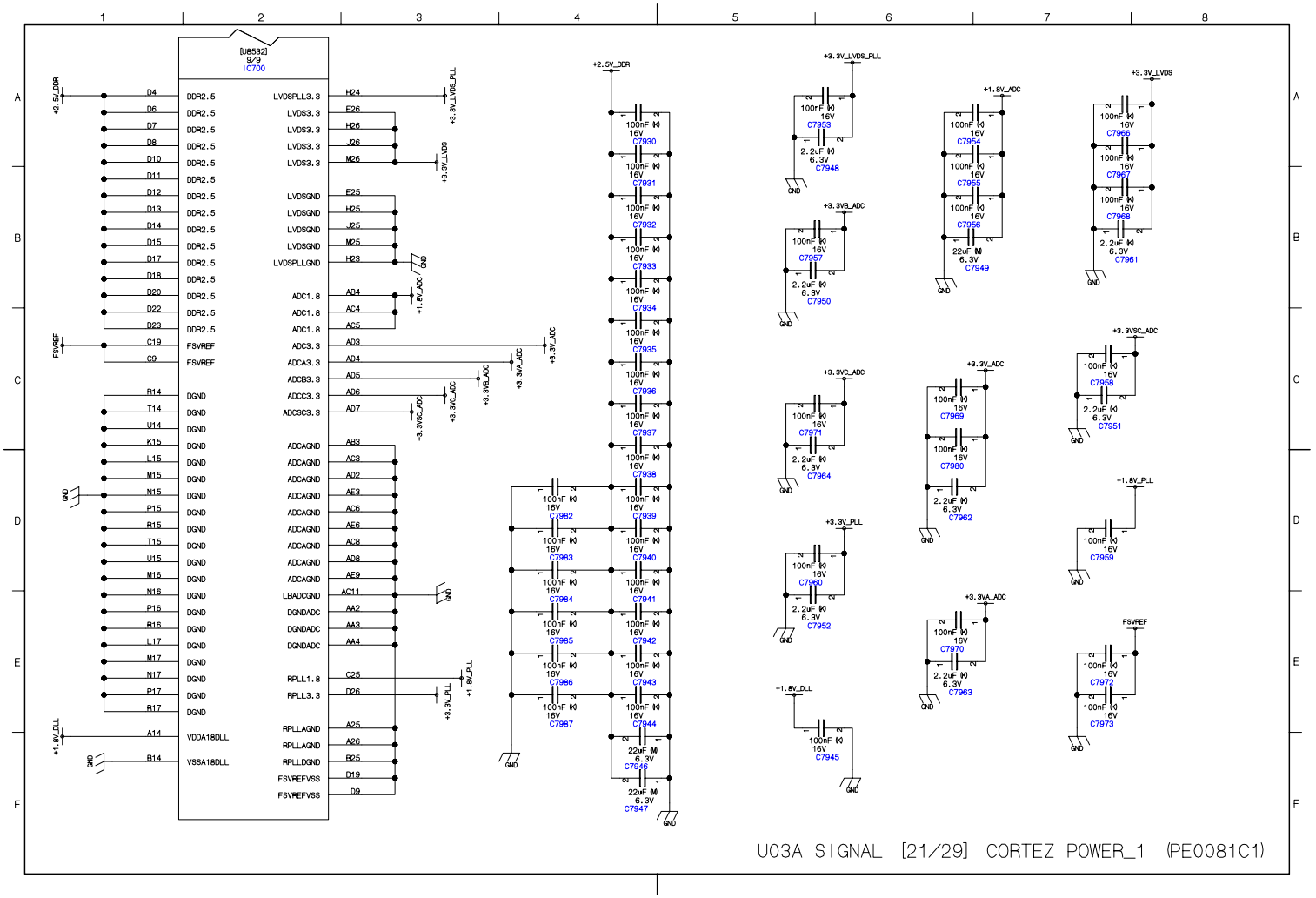

401:1A:402:3A
OCMADDR [0-19]
+3.3V_I/O
1K J
OCMADDR [1]
OCMADDR [2]
OCMADDR [3]
OCMADDR [4]
RM408
[YPXXR8]
OCMADDR [5]
R4005 1K J
OCMADDR [6]
R4006 1K J
OCMADDR [10]
R4010 1K J
OCMADDR [11]
R4011 1K J
OCMADDR [0]
R4000 1K J
OCMADDR [7]
R4007 1K J
OCMADDR [8]
R4008 1K J
OCMADDR [9]
R4009 1K J
GND
+3.3V_I/O
OCMADDR [12]
R4012 1K J
OCMADDR [13]
R4013 1K J
OCMADDR [14]
R4014 1K J
OCMADDR [15]
R4015 NOT MOUNT
OCMADDR [16]
R4016 NOT MOUNT
OCMADDR [17]
R4017 1K J
OCMADDR [18]
R4018 NOT MOUNT
OCMADDR [19]
R4019 1K J
OCMADDR [13]
R4130 NOT MOUNT
OCMADDR [14]
R4131 NOT MOUNT
OCMADDR [15]
R4132 1K J
OCMADDR [16]
R4133 1K J
OCMADDR [17]
R4134 NOT MOUNT
OCMADDR [18]
R4135 1K J
GND
U03A SIGNAL [18/29] BOOT CONFIG (PE0081C1)

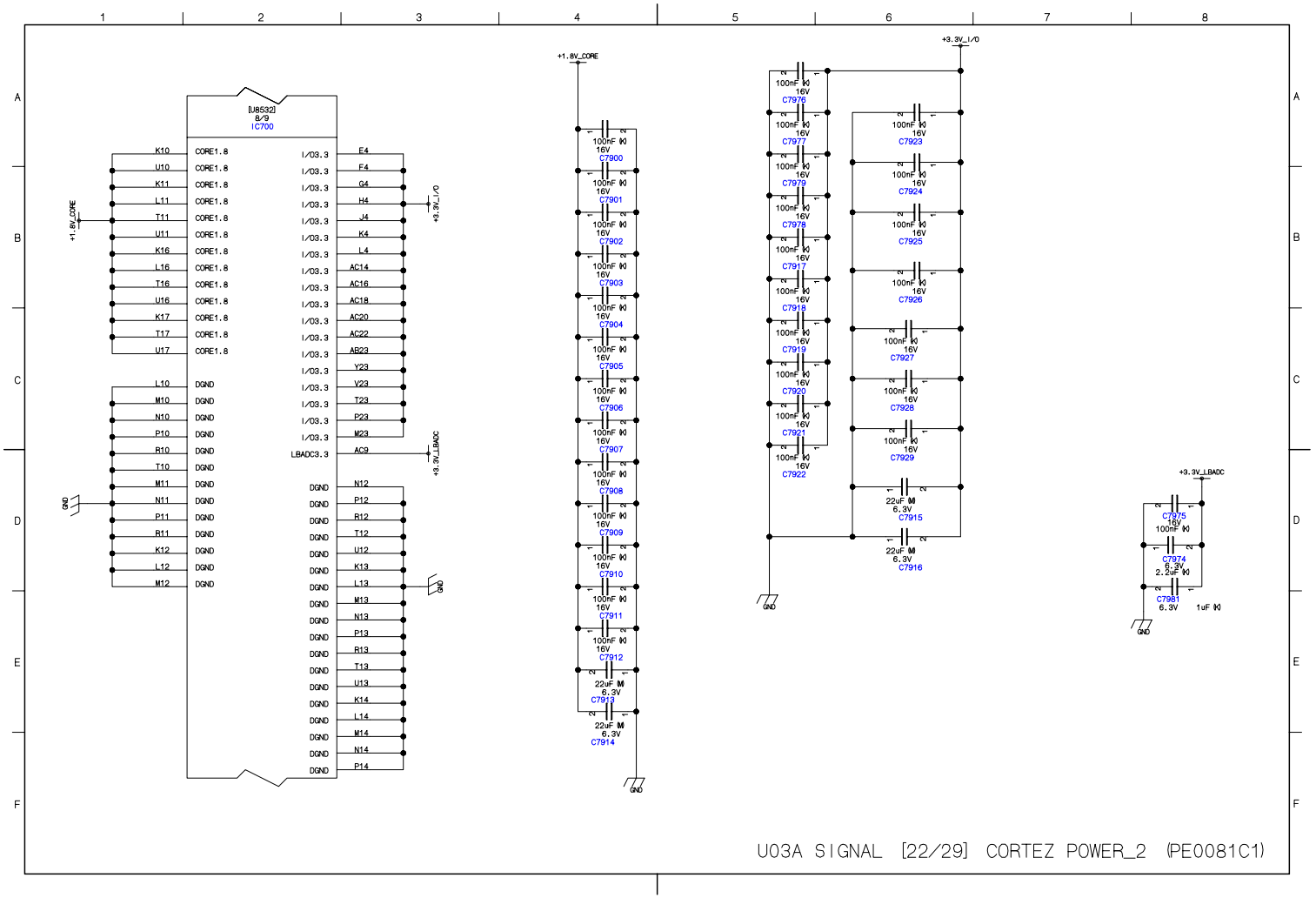


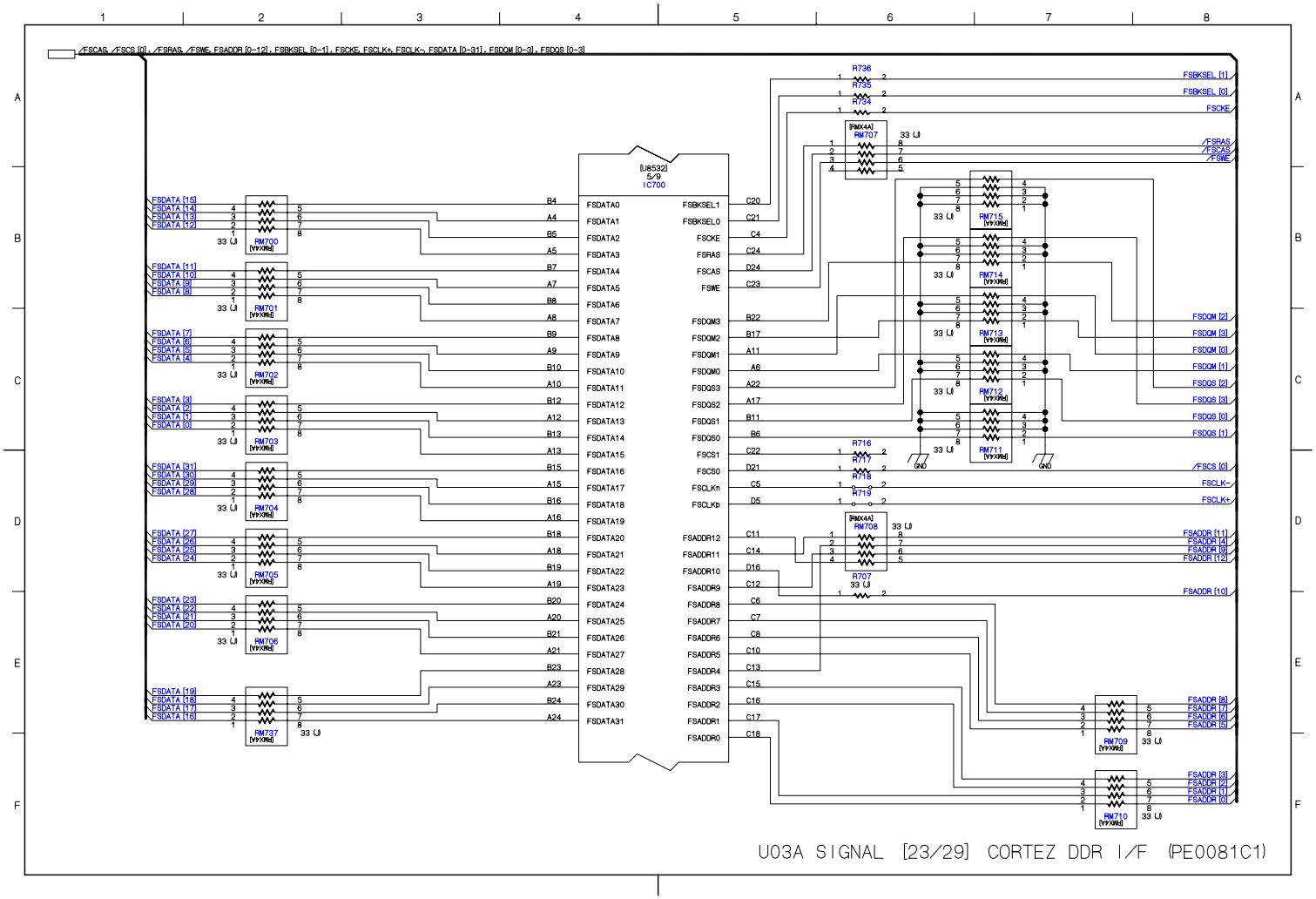
U03A SIGNAL [19/29] SERVICE CONNECTOR (PE0081C1)

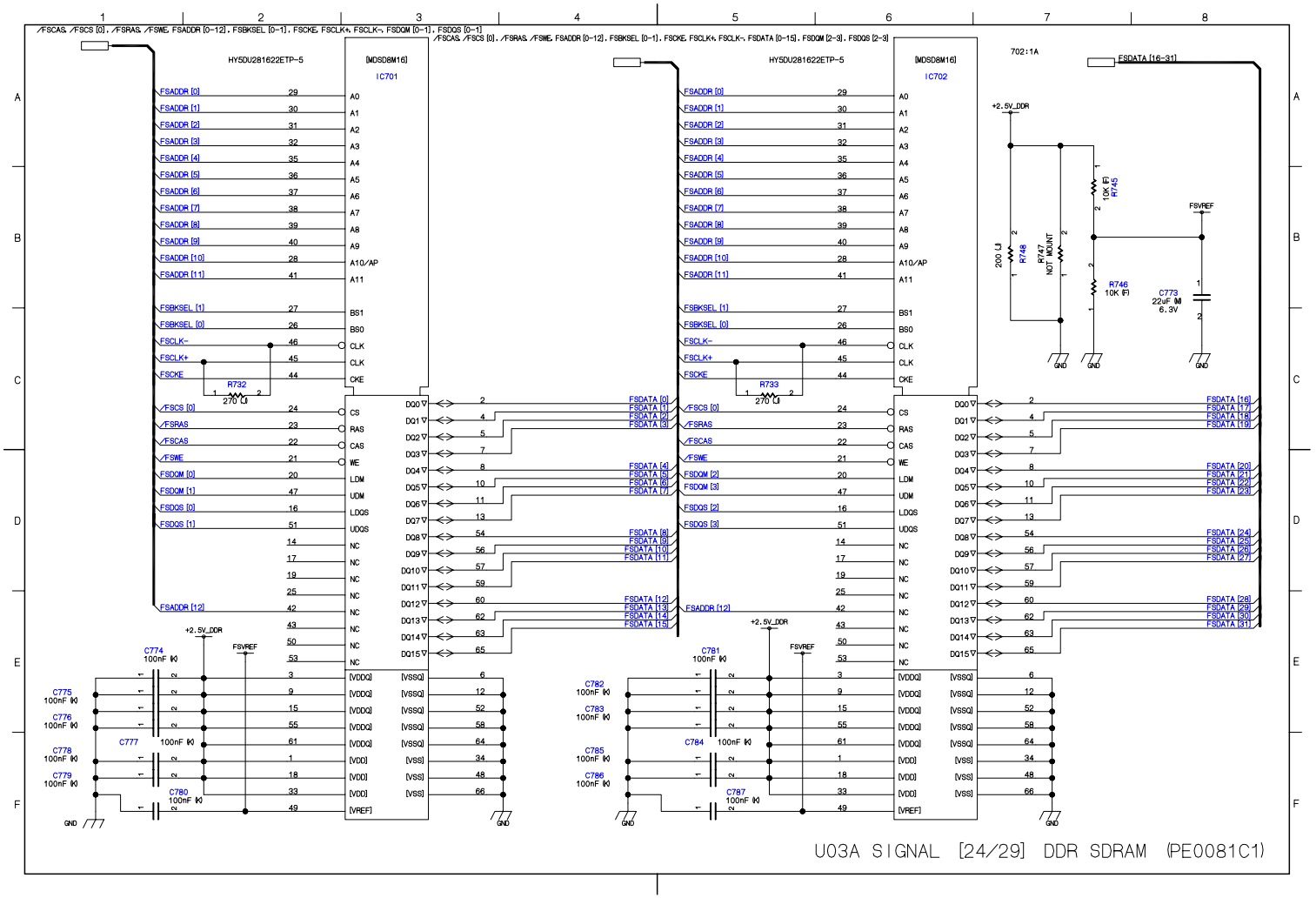


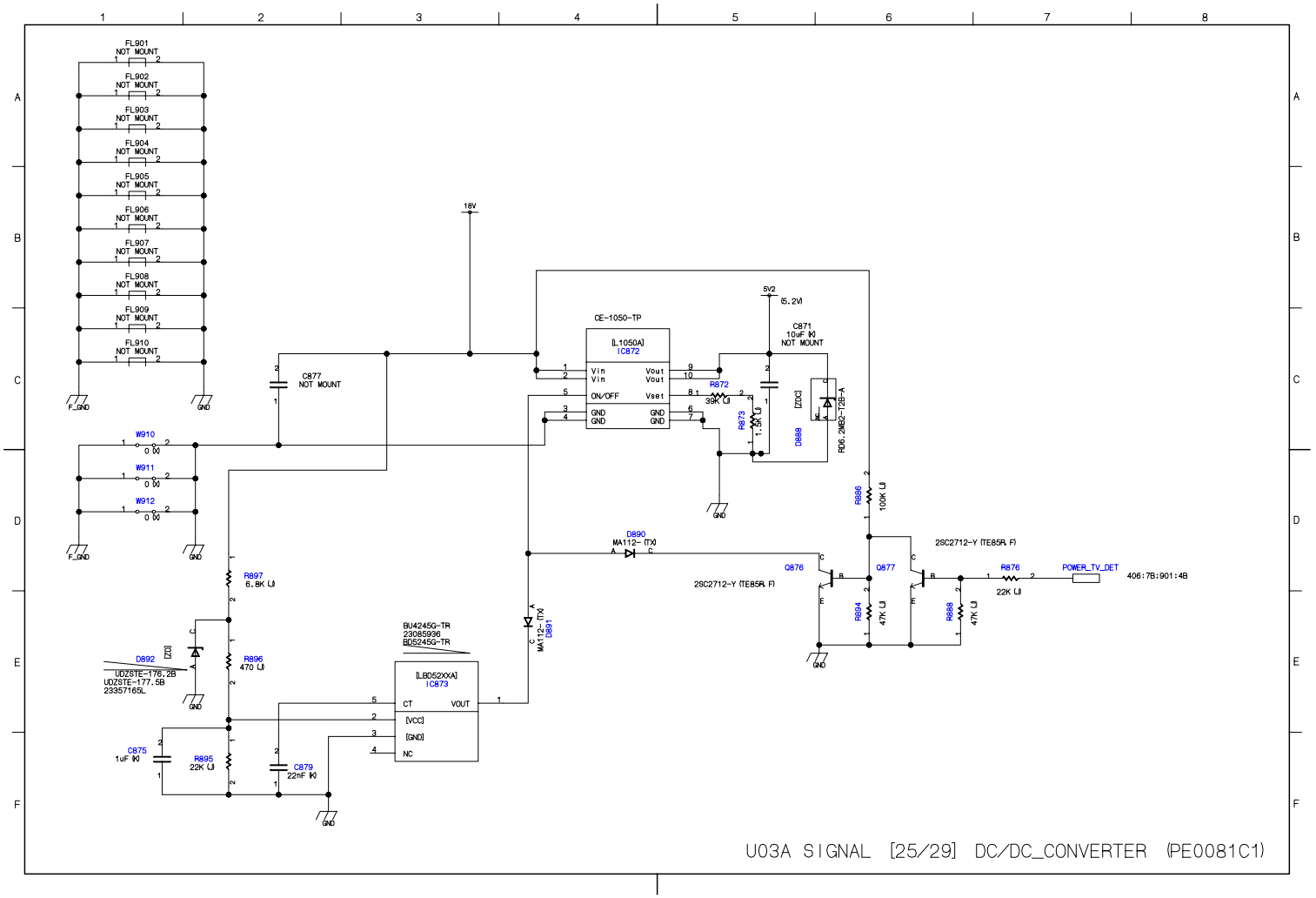
U03A SIGNAL [20/29] AUDIO (PE0081C1)


[U8532]
9/9
IC700
DDR2.5
LVDSPLL3.3
LVDS3.3
LVDSGND
LVDSPLLGND
ADC1.8
ADC3.3
ADCA3.3
ADCB3.3
ADCC3.3
ADCSC3.3
ADCAGND
DGNDADC
RPLL1.8
RPLL3.3
RPLLAGND
RPLLDGND
FSVREFVSS
DGND
VDDA18DLL
VSSA18DLL
FSVREF
+2.5V_DDR
+3.3V_LVDS_PLL
+3.3V_LVDS
+1.8V_ADC
+3.3V_ADC
+3.3VA_ADC
+3.3VB_ADC
+3.3VC_ADC
+3.3VSC_ADC
+1.8V_PLL
+3.3V_PLL
+1.8V_DLL
GND
100nF 16V
2.2uF 6.3V
22uF 6.3V
U03A SIGNAL [21/29] CORTEZ POWER_1 (PE0081C1)

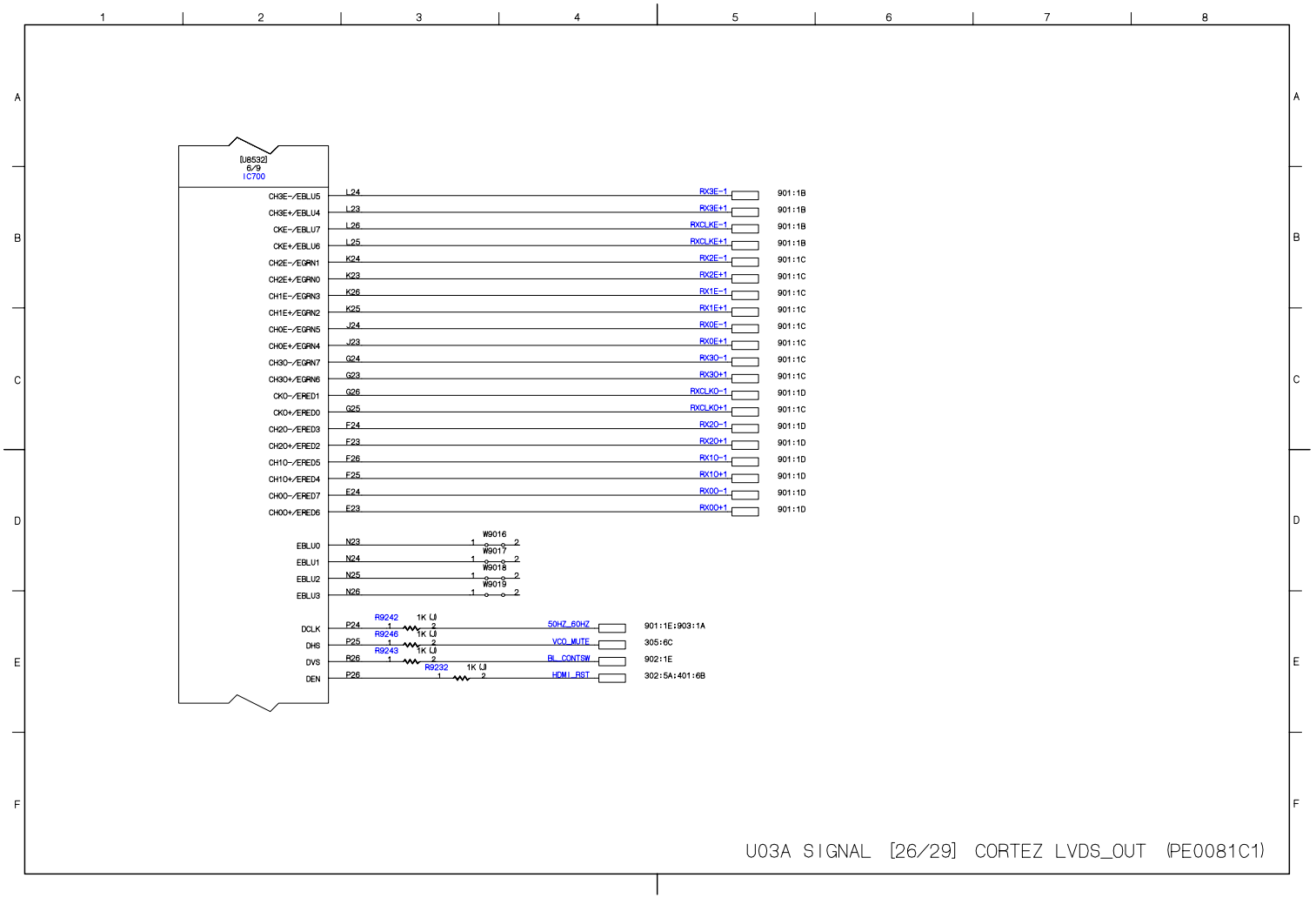

[U8532]
8/9
IC700
+1.8V_CORE
+3.3V_I/O
+3.3V_LBADC
GND
U03A SIGNAL [22/29] CORTEZ POWER_2 (PE0081C1)


/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-31], FSDQM [0-3], FSDQS [0-3]
[U8532]
5/9
IC700
FSDATA0
FSDATA1
FSDATA2
FSDATA3
FSDATA4
FSDATA5
FSDATA6
FSDATA7
FSDATA8
FSDATA9
FSDATA10
FSDATA11
FSDATA12
FSDATA13
FSDATA14
FSDATA15
FSDATA16
FSDATA17
FSDATA18
FSDATA19
FSDATA20
FSDATA21
FSDATA22
FSDATA23
FSDATA24
FSDATA25
FSDATA26
FSDATA27
FSDATA28
FSDATA29
FSDATA30
FSDATA31
FSBKSEL1
FSBKSEL0
FSCKE
FSRAS
FSCAS
FSWE
FSDQM3
FSDQM2
FSDQM1
FSDQM0
FSDQS3
FSDQS2
FSDQS1
FSDQS0
FSCS1
FSCS0
FSCLKn
FSCLKp
FSADDR12
FSADDR11
FSADDR10
FSADDR9
FSADDR8
FSADDR7
FSADDR6
FSADDR5
FSADDR4
FSADDR3
FSADDR2
FSADDR1
FSADDR0
R736
R735
R734
R716
R717
R718
R719
R707
RM707
RM708
RM709
RM710
RM711
RM712
RM713
RM714
RM715
RM700
RM701
RM702
RM703
RM704
RM705
RM706
RM737
33 Ω
GND
U03A SIGNAL [23/29] CORTEZ DDR I/F (PE0081C1)

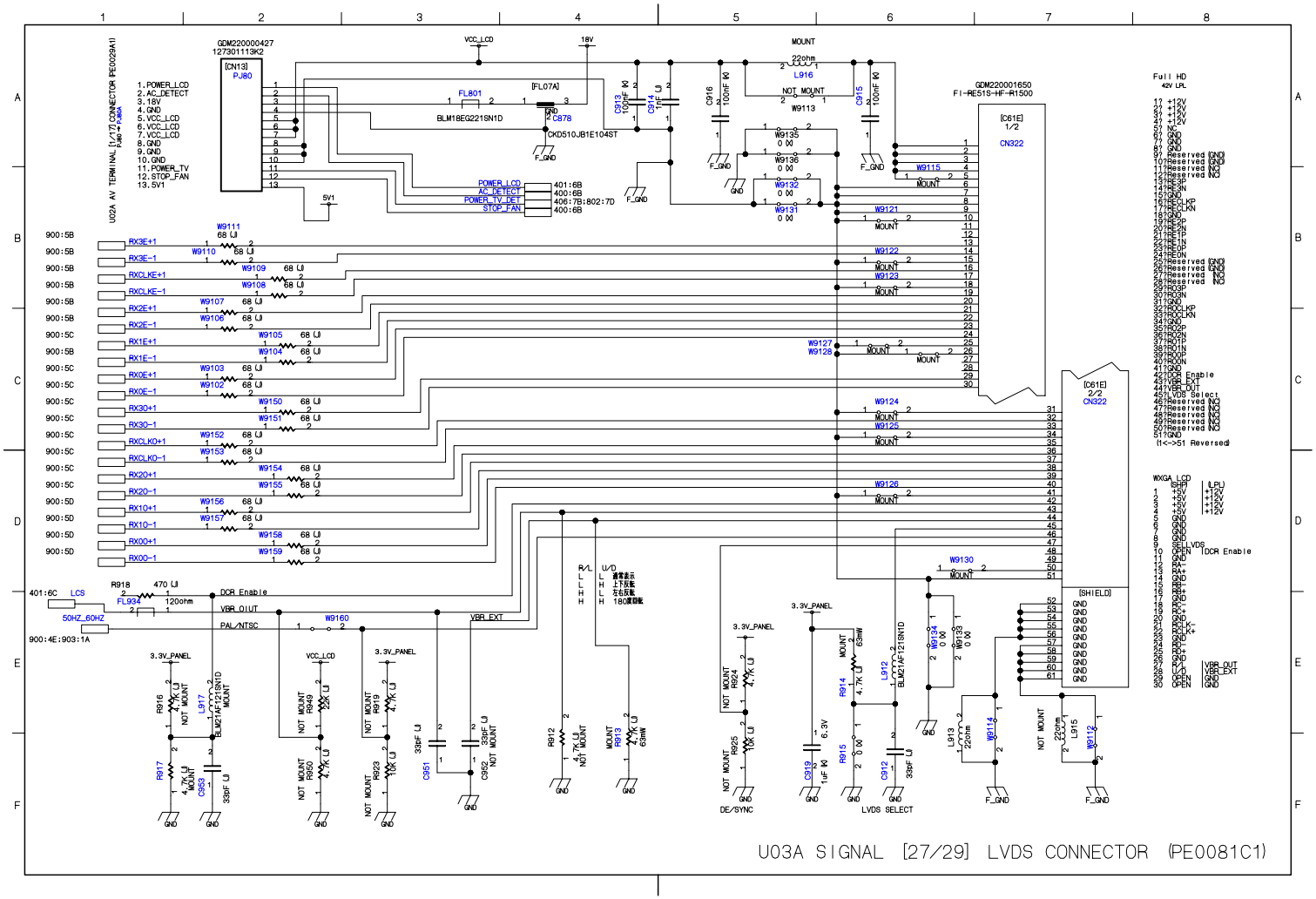

/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDQM [0-1], FSDQS [0-1]
/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-15], FSDQM [2-3], FSDQS [2-3]
HY5DU281622ETP-5
[MDS08M16]
IC701
IC702
702:1A
FSDATA [16-31]
+2.5V_DDR
FSVREF
R732
270 Ω
R733
270 Ω
R745
10K (F)
R746
10K (F)
R747
NOT MOUNT
R748
200 Ω
C773
22uF (M)
6.3V
C774
100nF (K)
C775
100nF (K)
C776
100nF (K)
C777
100nF (K)
C778
100nF (K)
C779
100nF (K)
C780
100nF (K)
C781
100nF (K)
C782
100nF (K)
C783
100nF (K)
C784
100nF (K)
C785
100nF (K)
C786
100nF (K)
C787
100nF (K)
GND
U03A SIGNAL [24/29] DDR SDRAM (PE0081C1)

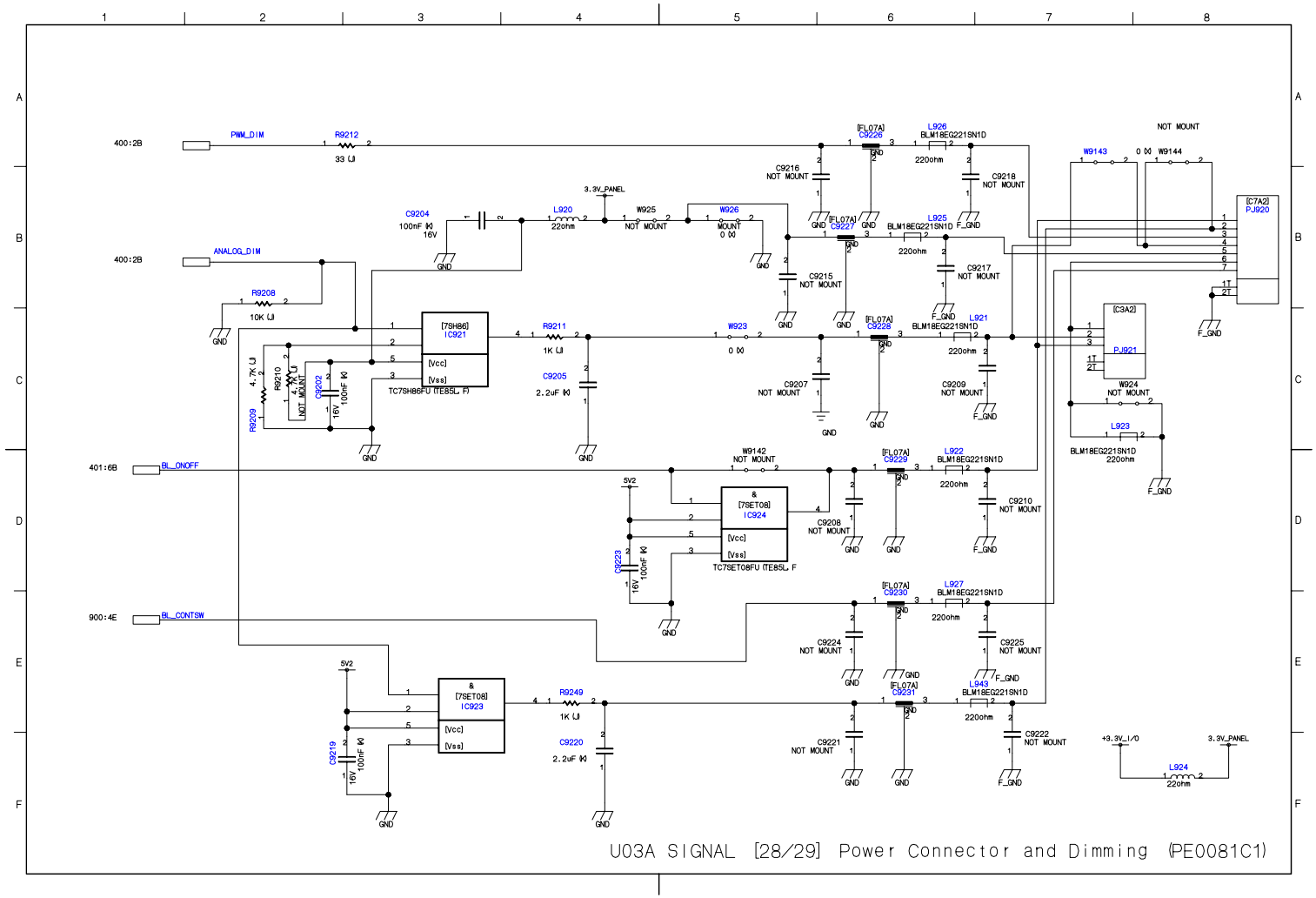


U03A SIGNAL [25/29] DC/DC_CONVERTER (PE0081C1)

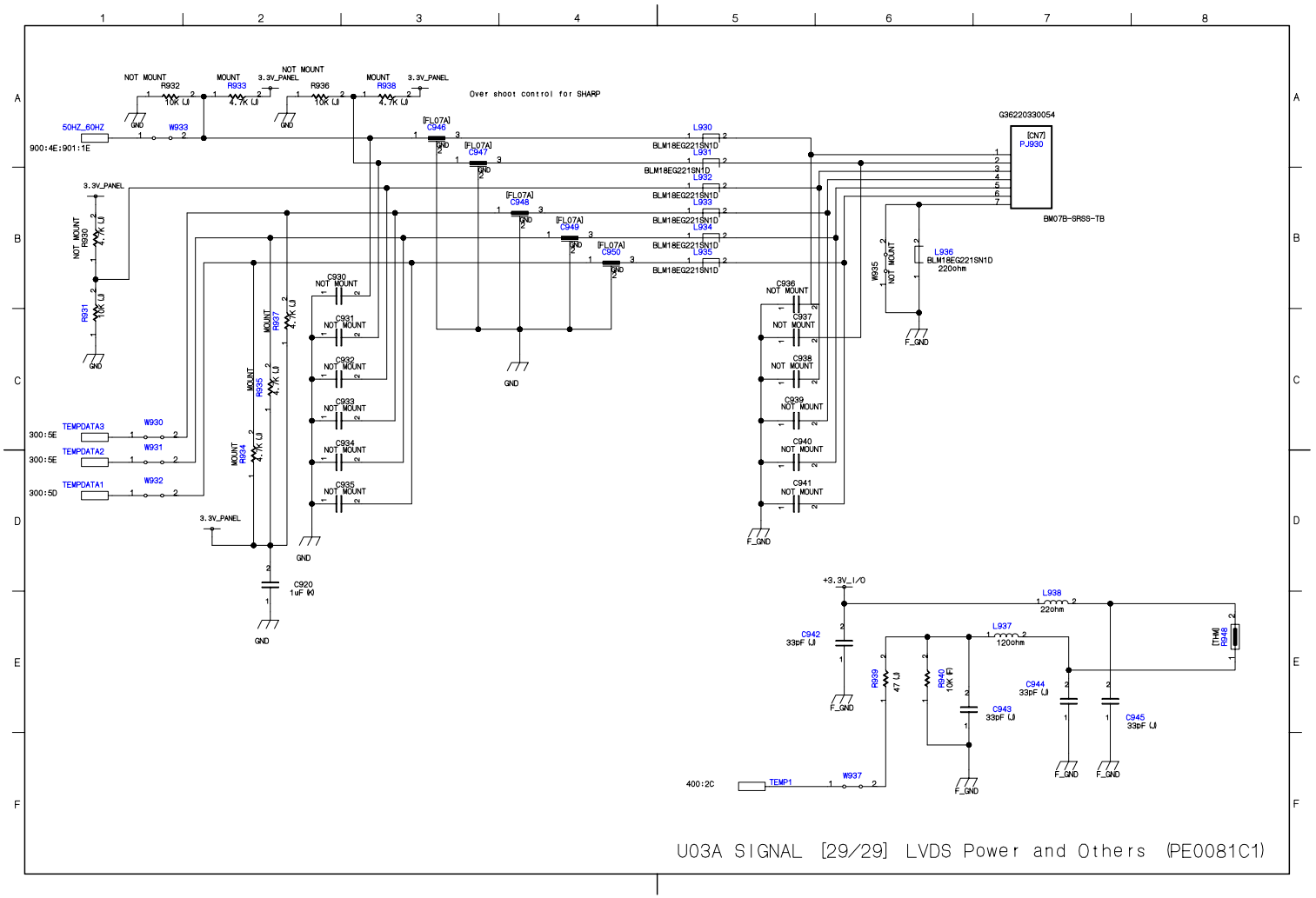


U03A SIGNAL [26/29] CORTEZ LVDS_OUT (PE0081C1)

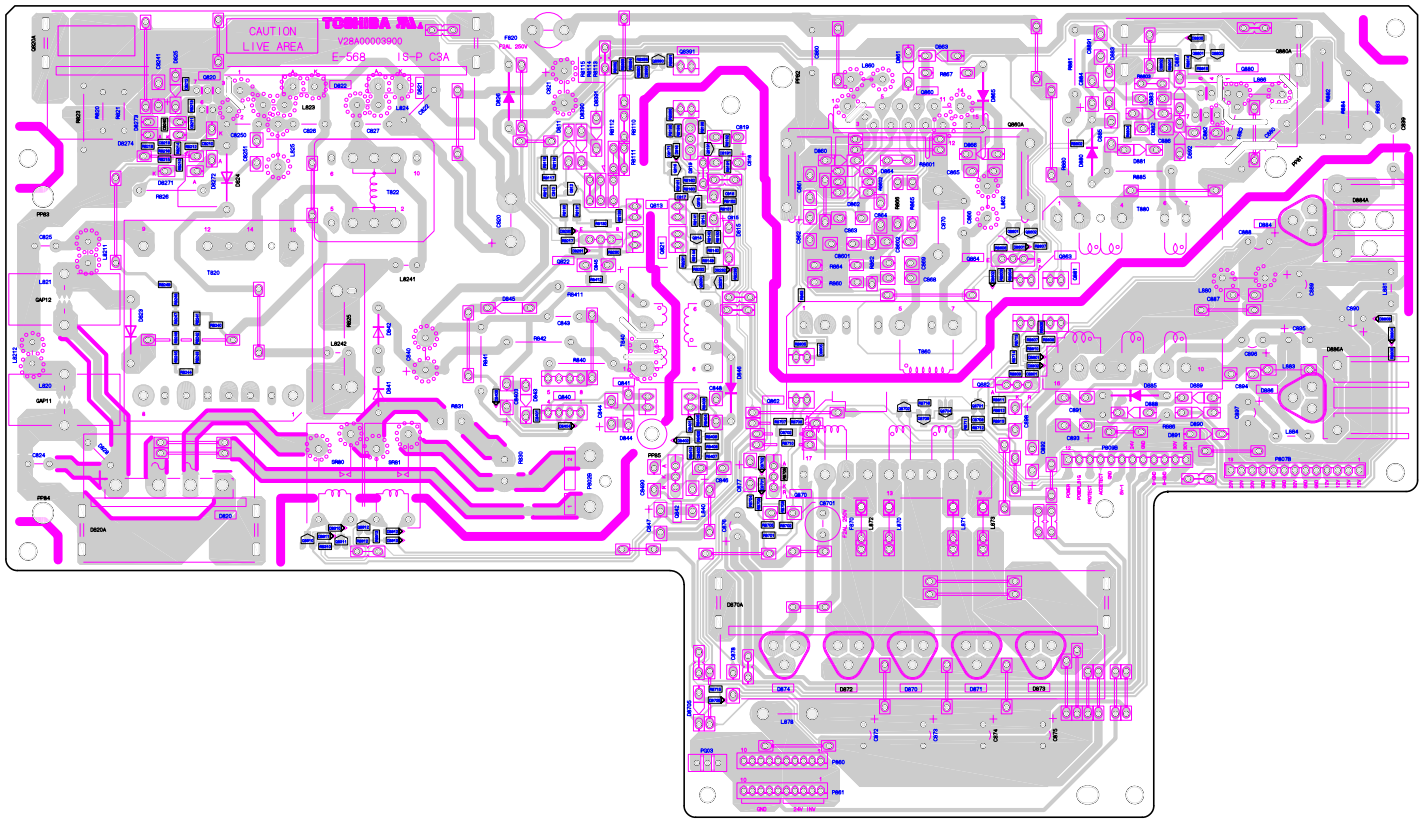

U03A SIGNAL [27/29] LVDS CONNECTOR (PE0081C1)
U02A AV TERMINAL [1/17] CONNECTOR (PE0029A1)
1.POWER_LCD
2.AC_DETECT
3.18V
4.GND
5.VCC_LCD
6.VCC_LCD
7.VCC_LCD
8.GND
9.GND
10.GND
11.POWER_TV
12.STOP_FAN
13.5V1
GDM220000427
127301113K2
[CN13]
P.J80
VCC_LCD
18V
[FL07A]
FL801
BLM18EG221SN1D
C878
CKD510JB1E104ST
C913 100nF
C914 10nF
C916 100nF
C915 100nF
L916
22ohm
NOT_MOUNT
W9113
POWER_LCD 401:6B
AC_DETECT 400:6B
POWER_TV_DET 406:7B:802:7D
STOP_FAN 400:6B
5V1
GDM220001650
FI-RE51S-HF-R1500
[C61E]
1/2
CN322
[C61E]
2/2
CN322
[SHIELD]
Full HD
42V LPL
WXGA LCD
W9111 68 ohm
W9110 68 ohm
W9109 68 ohm
W9108 68 ohm
W9107 68 ohm
W9106 68 ohm
W9105 68 ohm
W9104 68 ohm
W9103 68 ohm
W9102 68 ohm
W9150 68 ohm
W9151 68 ohm
W9152 68 ohm
W9153 68 ohm
W9154 68 ohm
W9155 68 ohm
W9156 68 ohm
W9157 68 ohm
W9158 68 ohm
W9159 68 ohm
RX3E+1
RX3E-1
RXCLKE+1
RXCLKE-1
RX2E+1
RX2E-1
RX1E+1
RX1E-1
RX0E+1
RX0E-1
RX3O+1
RX3O-1
RXCLKO+1
RXCLKO-1
RX2O+1
RX2O-1
RX1O+1
RX1O-1
RX0O+1
RX0O-1
W9115
W9132
W9131
W9121
W9122
W9123
W9127
W9128
W9124
W9125
W9126
W9130
W9160
R918 470 ohm
FL934 120ohm
DCR Enable
VBR OUT
PAL/NTSC
VBR EXT
50HZ_60HZ
LCS
401:6C
900:4E:903:1A
R/L
U/D
3.3V_PANEL
VCC_LCD
DE/SYNC
LVDS SELECT
R916
R917
L917
C953
R949
R950
R919
R923
C951
C952
R912
R913
R924
R925
R914
R915
C919
L912
C912
L913
W9114
L915
W9112
W9134
W9133
F_GND
GND



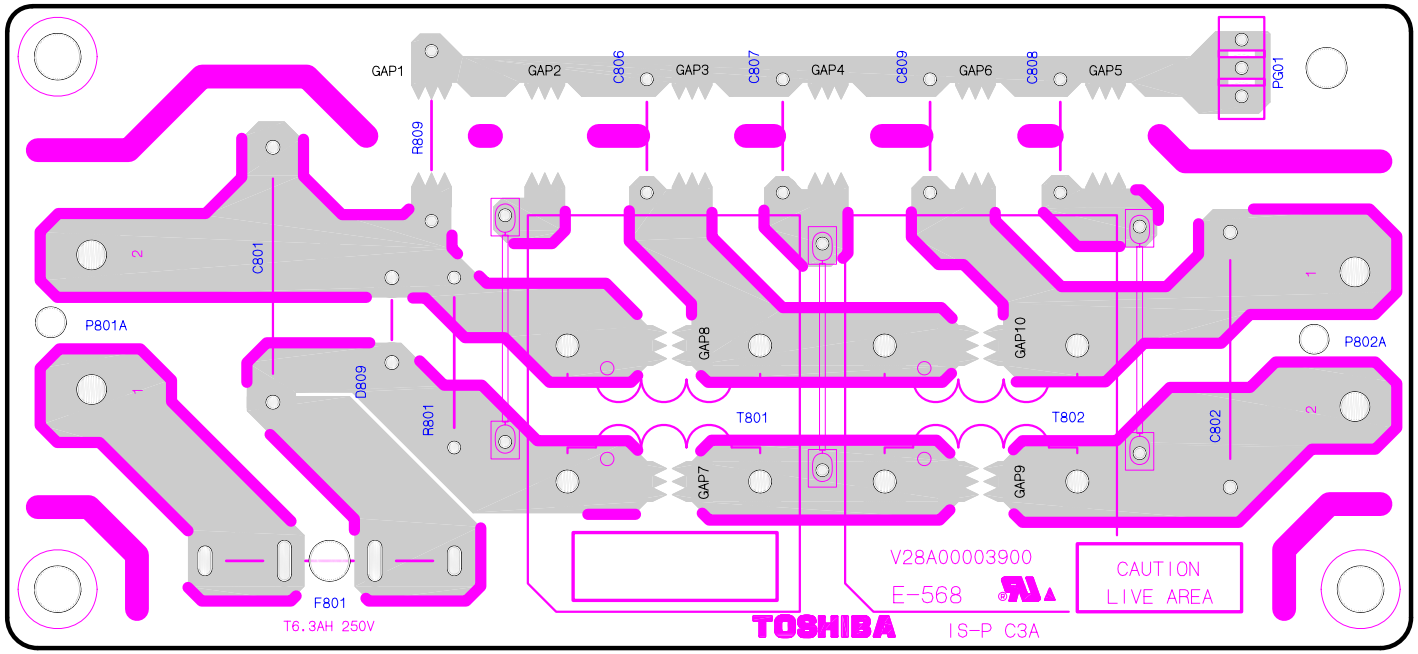
U03A SIGNAL [28/29] Power Connector and Dimming (PE0081C1)


NOT MOUNT
R932
10K (J)
MOUNT
R933
4.7K (J)
3.3V_PANEL
NOT MOUNT
R936
10K (J)
MOUNT
R938
4.7K (J)
3.3V_PANEL
Over shoot control for SHARP
50HZ_60HZ
W933
900:4E:901:1E
GND
[FL07A]
C946
C947
C948
C949
C950
L930
BLM18EG221SN1D
L931
L932
L933
L934
L935
G36220330054
[CN7]
PJ930
BM07B-SRSS-TB
L936
BLM18EG221SN1D
220ohm
W935
NOT MOUNT
F_GND
3.3V_PANEL
NOT MOUNT
R930
4.7K (J)
R931
10K (J)
C930
NOT MOUNT
C931
NOT MOUNT
C932
NOT MOUNT
C933
NOT MOUNT
C934
NOT MOUNT
C935
NOT MOUNT
MOUNT
R937
4.7K (J)
MOUNT
R935
4.7K (J)
MOUNT
R934
4.7K (J)
C936
NOT MOUNT
C937
NOT MOUNT
C938
NOT MOUNT
C939
NOT MOUNT
C940
NOT MOUNT
C941
NOT MOUNT
TEMPDATA3
W930
300:5E
TEMPDATA2
W931
300:5E
TEMPDATA1
W932
300:5D
3.3V_PANEL
C920
1uF (K)
+3.3V_I/O
L938
22ohm
C942
33pF (J)
L937
120ohm
R939
47 (J)
R940
10K (F)
C943
33pF (J)
C944
33pF (J)
C945
33pF (J)
R946
R945
F_GND
400:2C
TEMP1
W937
U03A SIGNAL [29/29] LVDS Power and Others (PE0081C1)

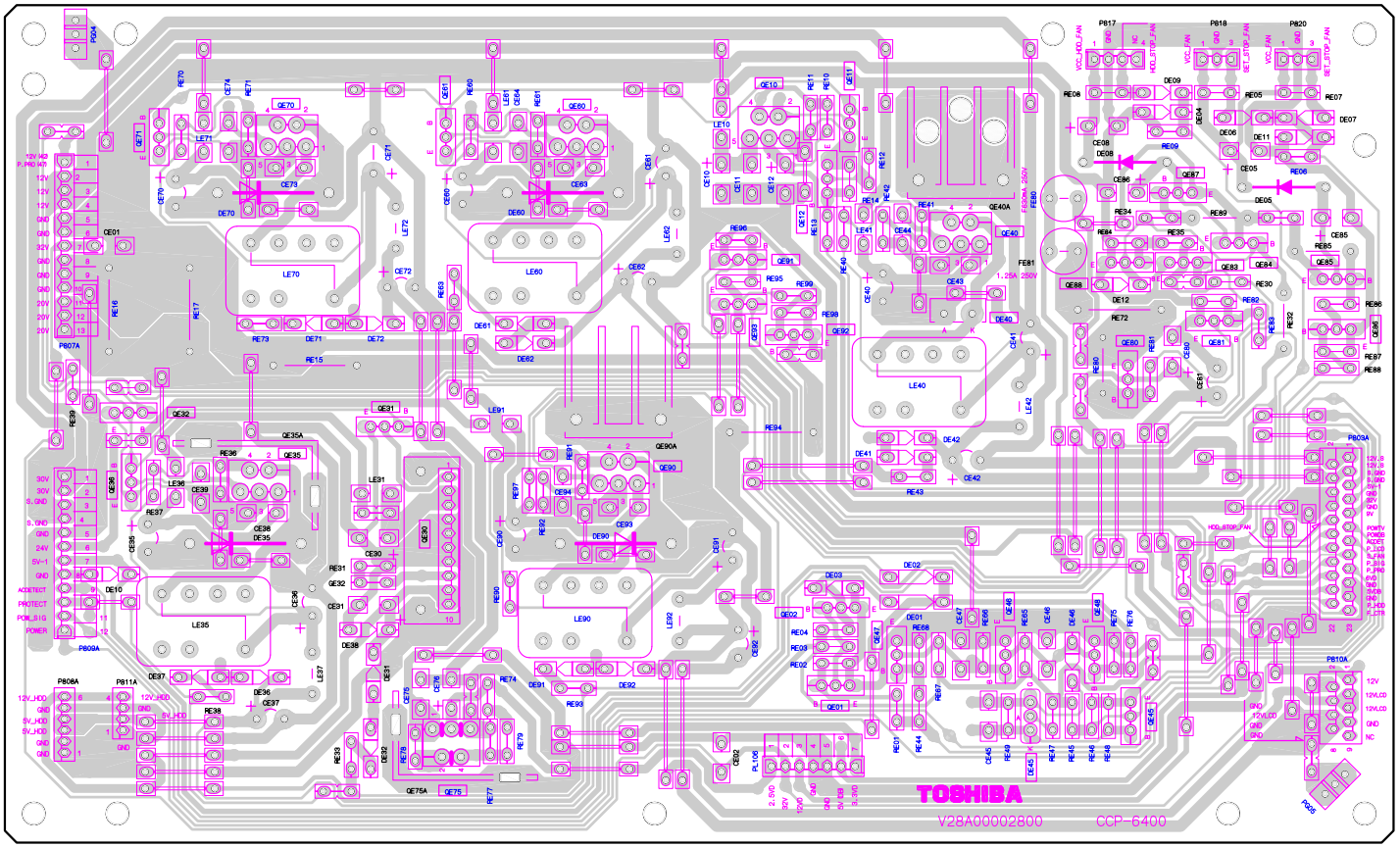
U01A POWER [Bottom] (PE0071A1)



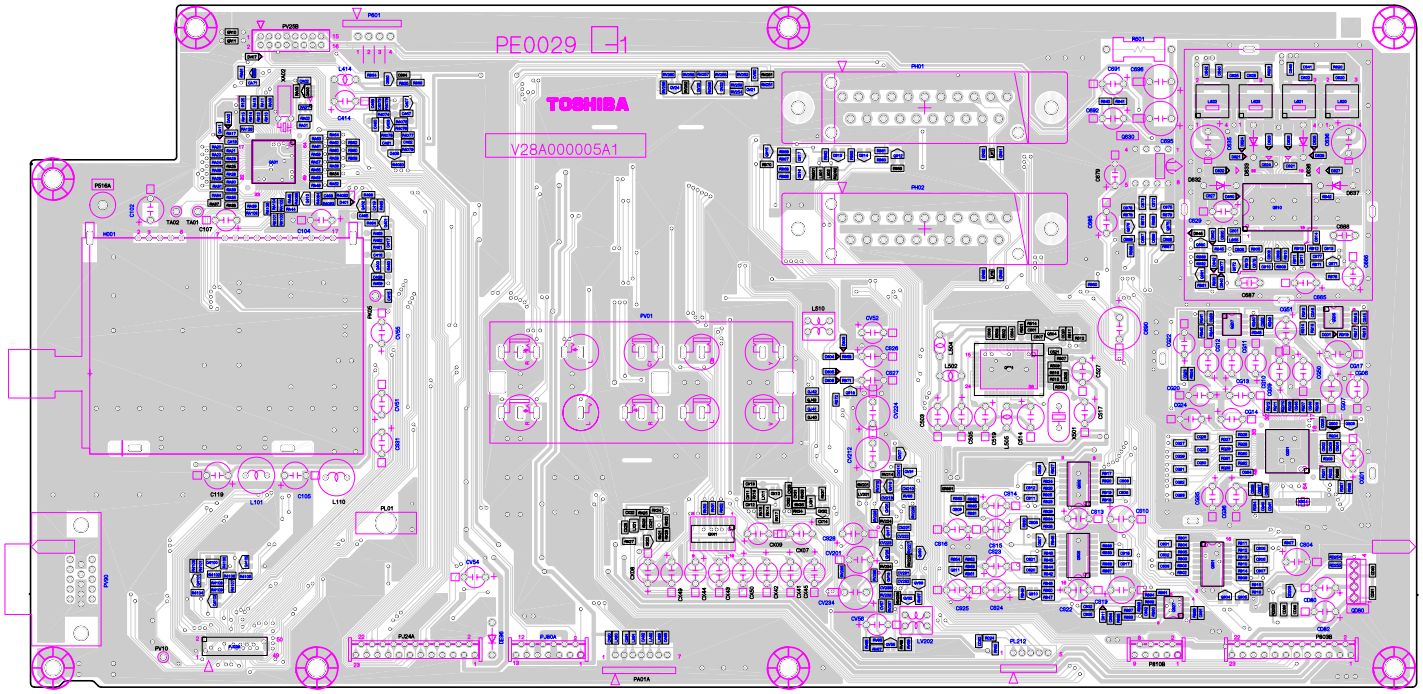
U01B AC IN [Bottom] (PE0071A2)



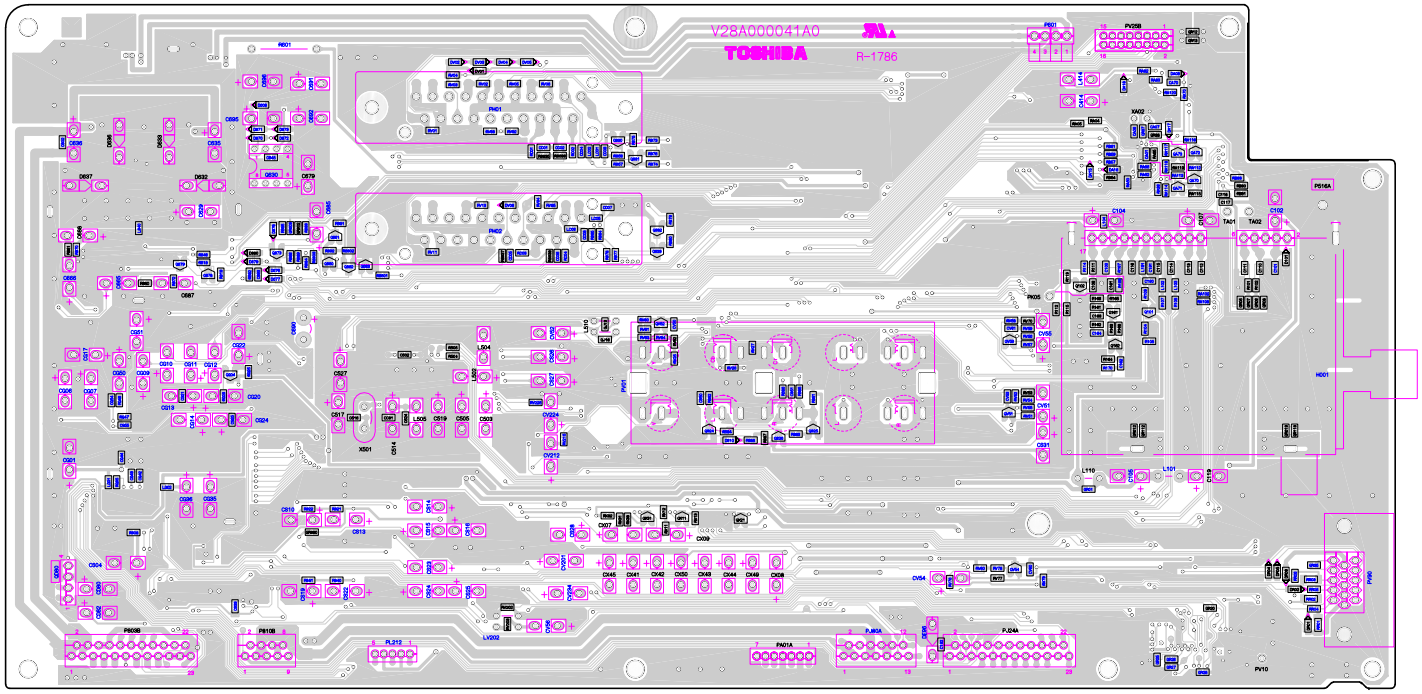
U02A LOW B [Bottom] (PE0063C1)



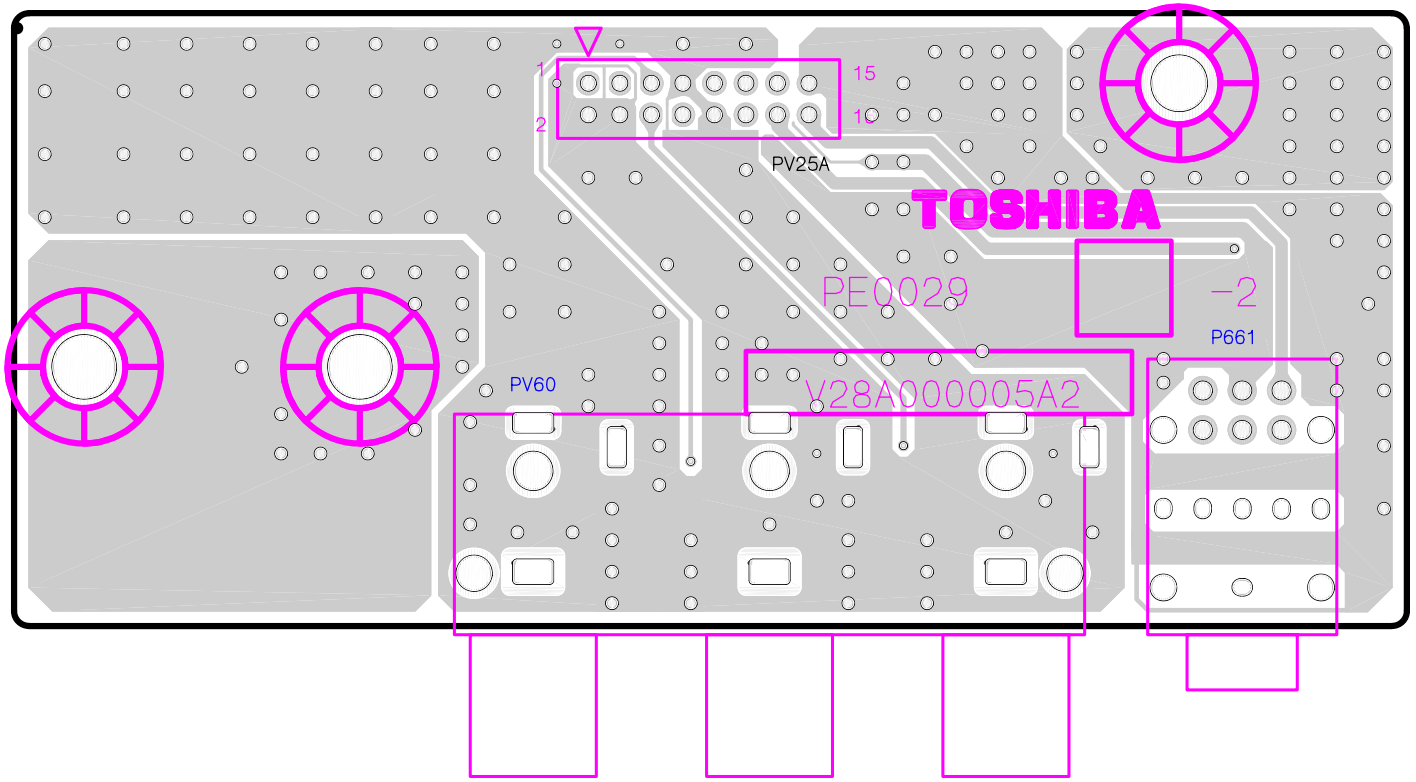
U02A AV TERMINAL [Top] (PE0029A1)



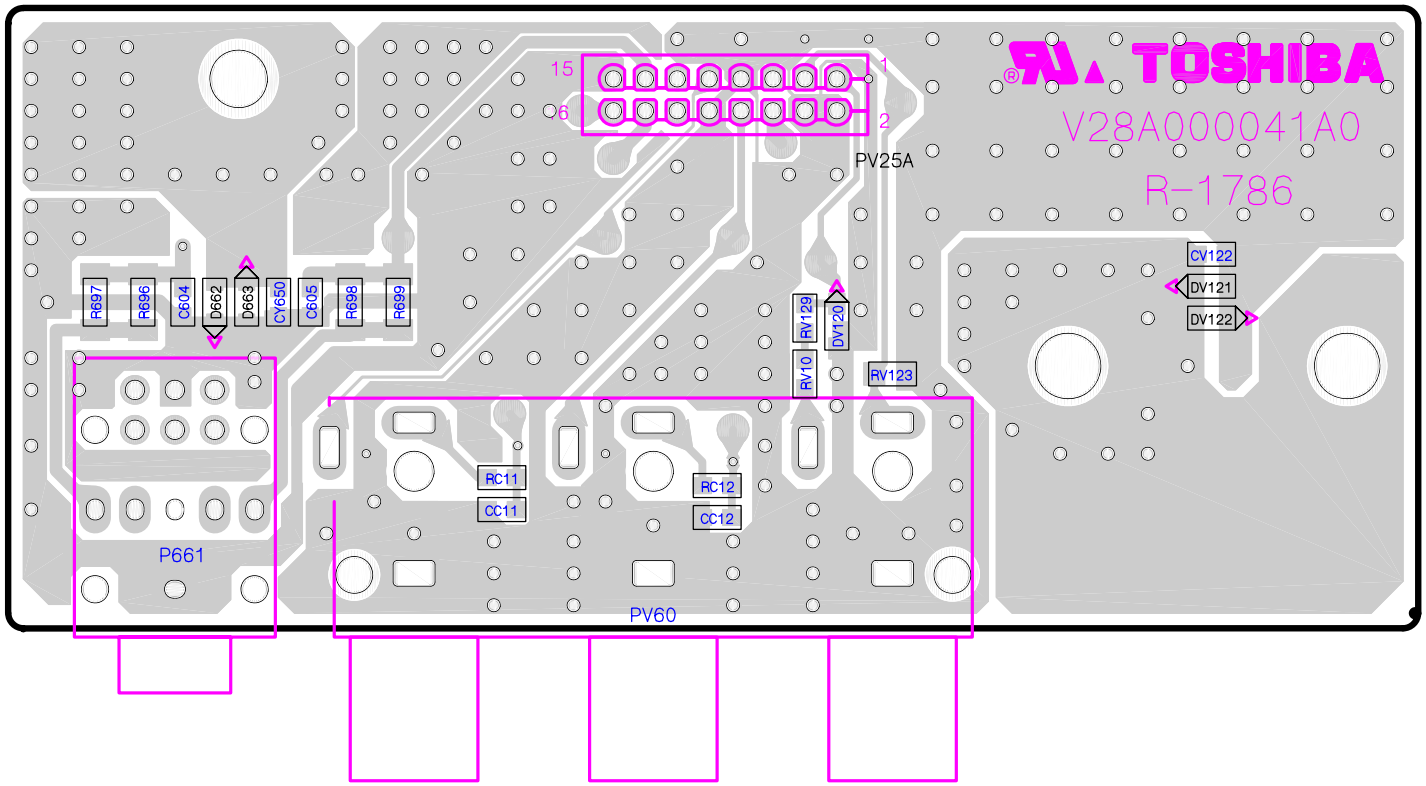
U02A AV TERMINAL [Bottom] (PE0029A1)



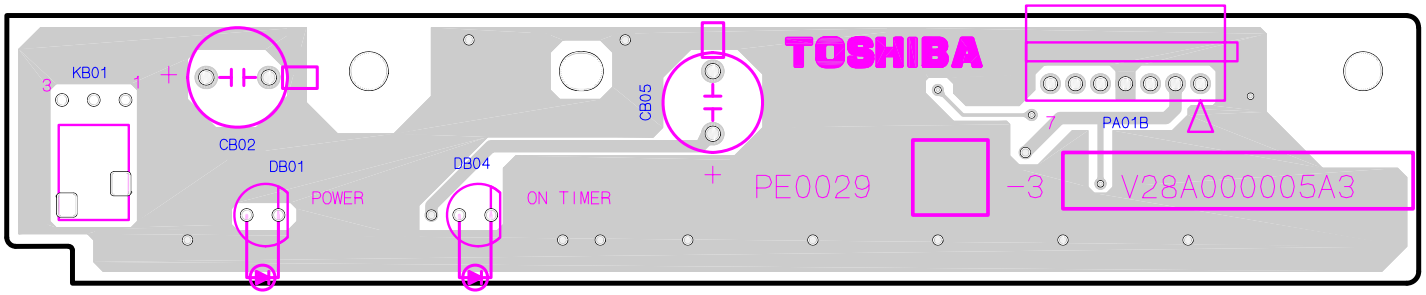
U02B FRONT AV [Top] (PE0029A2)



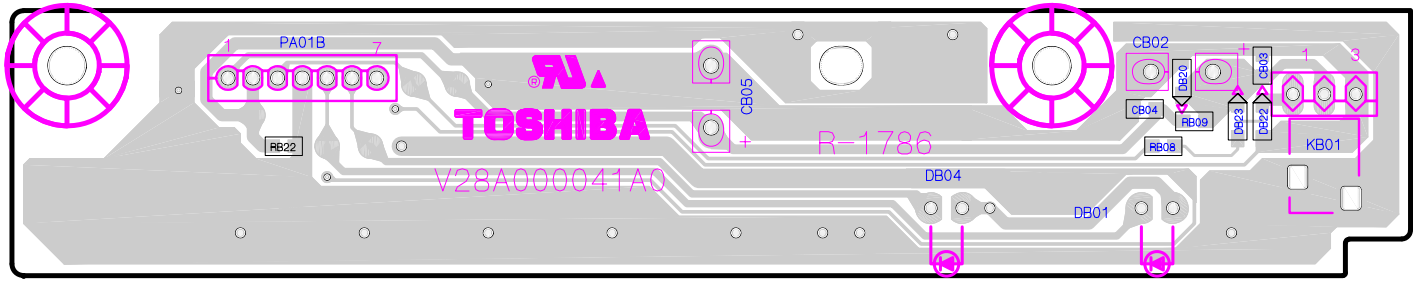
U02B FRONT AV [Bottom] (PE0029A2)



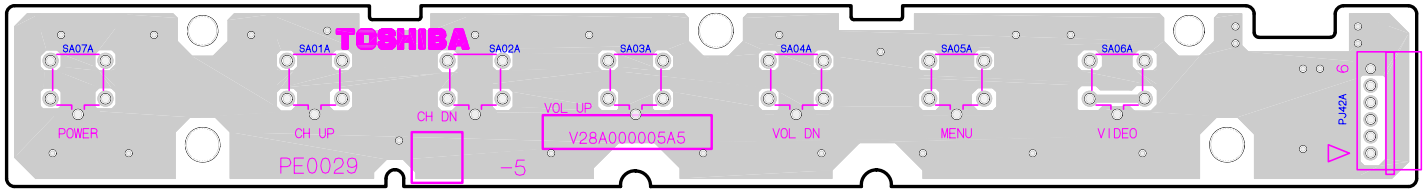
U02C LED [Top] (PE0029A3)



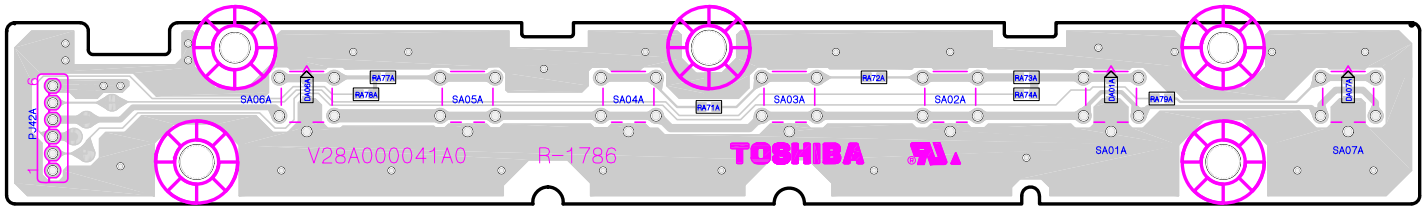
U02C LED [Bottom] (PE0029A3)



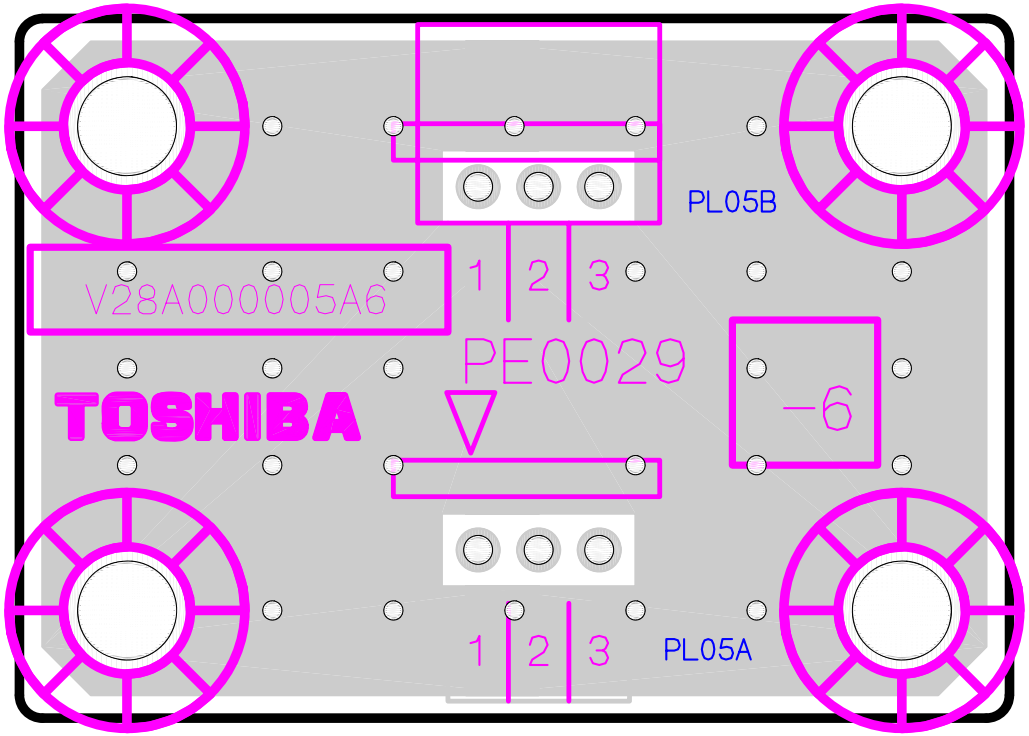
U02E 7-KEY [Top] (PE0029A5)



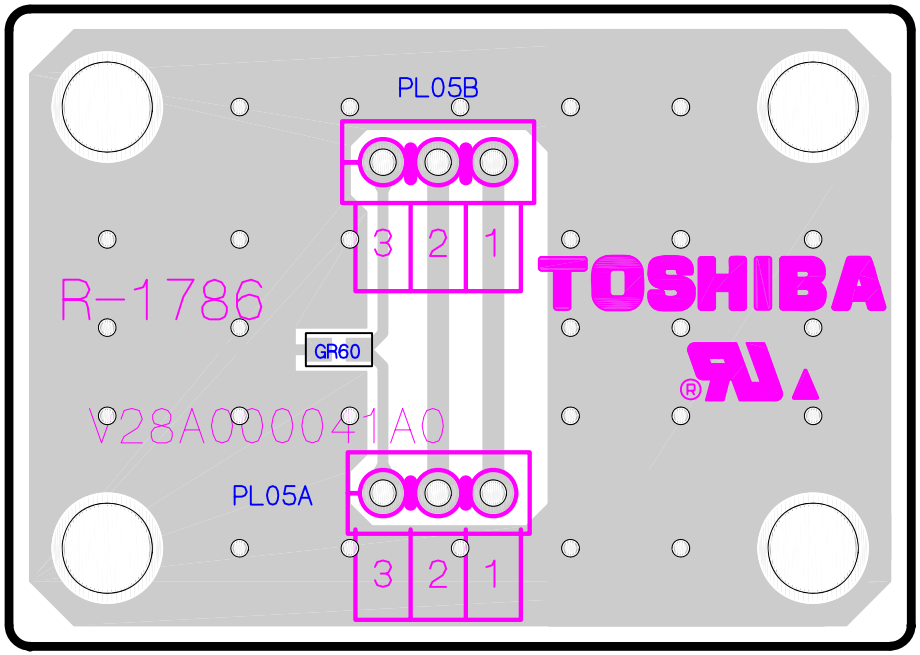
U02E 7-KEY [Bottom] (PE0029A5)



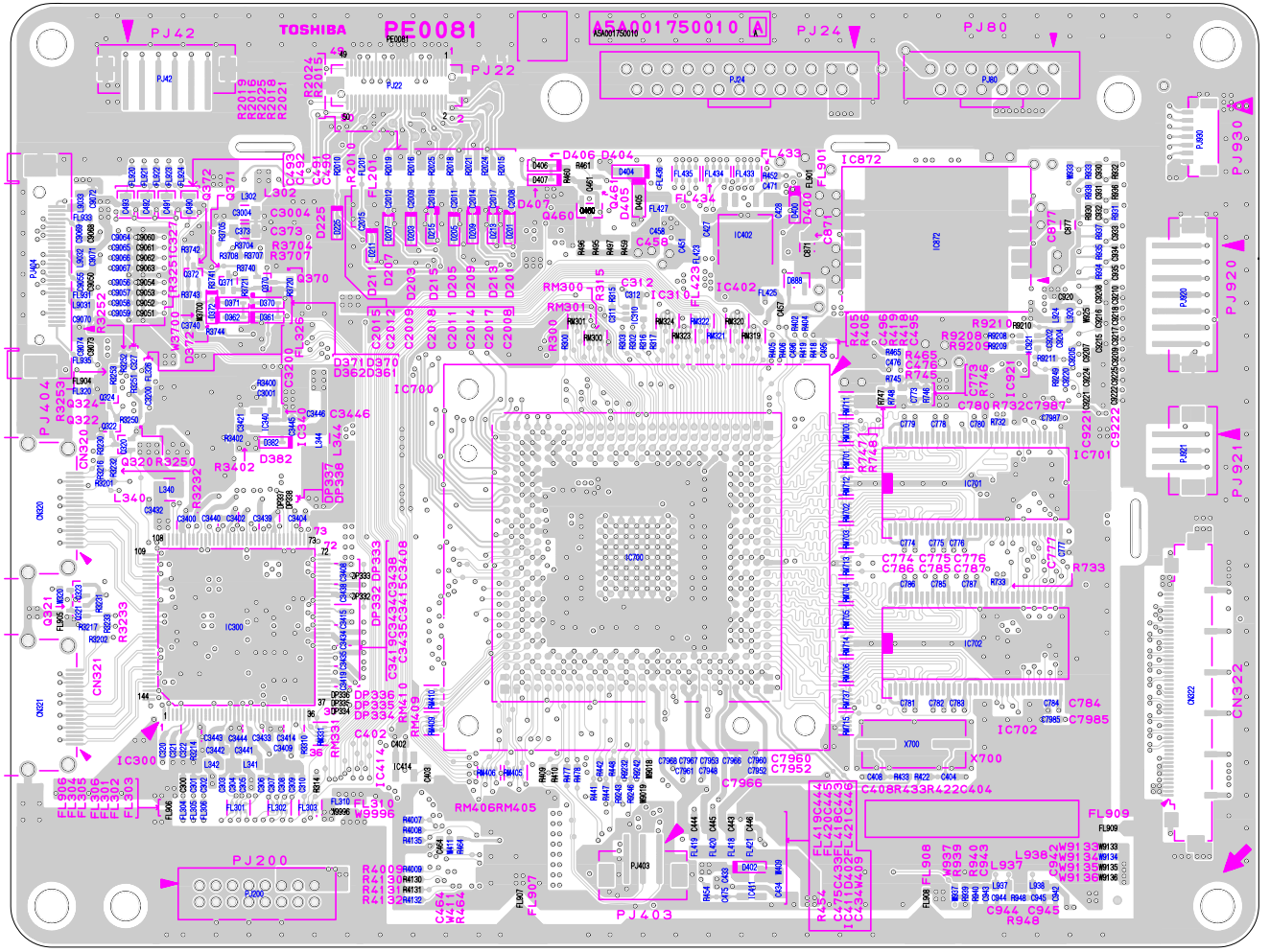
U02F DB_DOWNLOAD [Top] (PE0029A6)



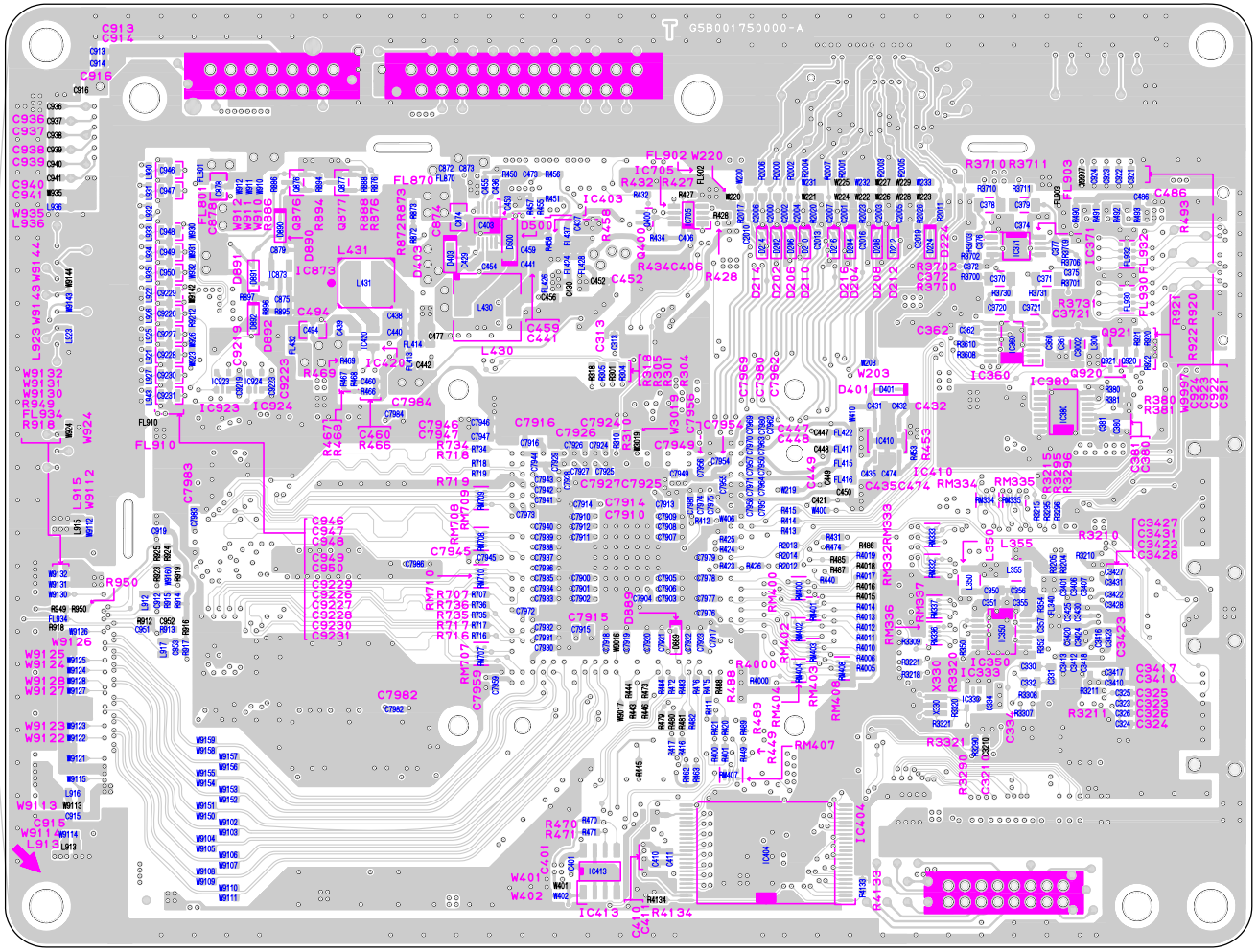
U02F DB_DOWNLOAD [Bottom] (PE0029A6)



U03A SIGNAL [Top] (PE0081C1)



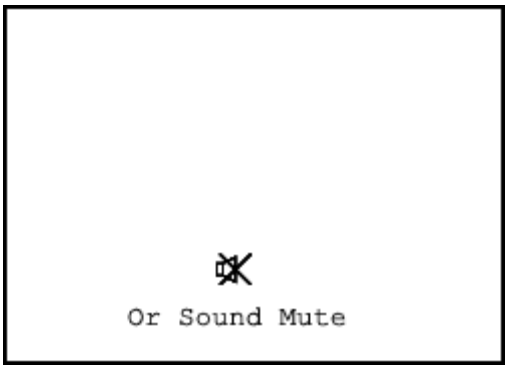
U03A SIGNAL [Bottom] (PE0081C1)



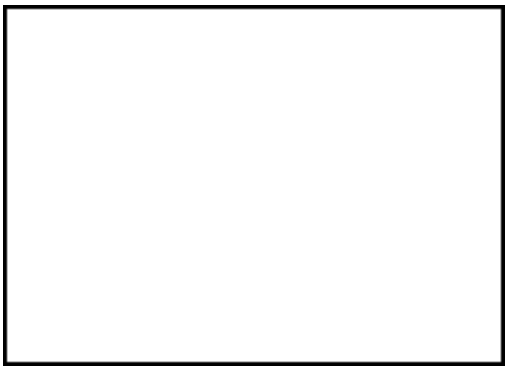
ADJUSTMENT

Service Mode

Entering to Service Mode



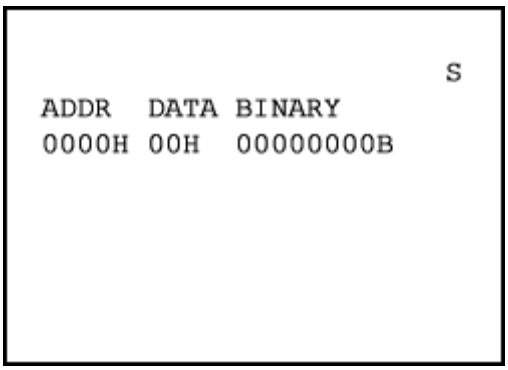
↓



↓

Service Mode display

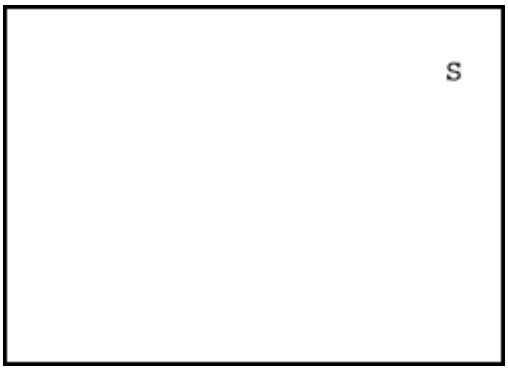
1. Press 🔇 button once on remote control.
2. Press 🔇 button again and keep in pressing.
3. While pressing the 🔇 button, press MENU button on TV set.



Displaying the Adjustment Menu

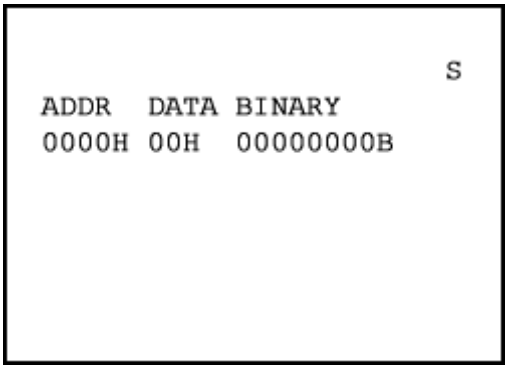
Press MENU button on TV.

Service Mode



Press ↑ ↓ Press

Adjustment Mode



Key Function in the Service Mode

The following key entry during display of adjustment menu provides special functions.

CAUTION: Never try to perform initialization unless you have changed the memory IC.

Test signal selection	⊕ button (on remote control)
Selection of the adjustment items	CH ▲/▼ (on TV or remote control)
Change of the data value	Volume ◿ +/- (on TV or remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (QA02)	CALL + CH button on TV (▲)
Reset the count of operating protect circuit to "00"	CALL + CH button on TV (▼)
"RCUT" selection	1 button
"GCUT" selection	2 button
"BCUT" selection	3 button
"CNTX" selection	4 button
"COLC" selection	5 button
"UVTT" selection	6 button
Automatic A/D Adjustment (PC, Component, Composite (PAL, NTSC))	7 button
Self diagnostic display ON/OFF	9 button

Selecting the Adjusting Items

Every pressing of CH ▲ button in the service mode changes the adjustment items in the order of table below. (▼ button for reverse order)

SETTING & ADJUSTING DATA

[SERVICE MODE]

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Note:

The image system data of RCUT-BDRV is different by each image format.
The PAL value is indicated in the table.
Never adjust H.POS and V.POS except PAL/WIDE mode.

Item	Name of adjustment	Preset	Data
RCUT	R CUT OFF	00H←	←
GCUT	G CUT OFF	00H←	←
BCUT	B CUT OFF	00H←	←
RDRV	R DRIVE	7EH	←
GDRV	G DRIVE	80H←	←
BDRV	B DRIVE	88H←	←
BRTC	BRIGHTNESS CENTER	03H	←
COLC	COLOR CENTER	A8H	←
UVTT	BASE BAND TINT	04H←	←
CNTX	CONTRAST MAX	86H	←
VOLUX	MAX VOLUME LIMITED	7FH←	←
PLLW0	PLL WAIT TIME	14H←	←
PLLW1	PLL WAIT TIME	03H←	←
PLLW2	PLL WAIT TIME	0FH←	←
PLLW3	PLL WAIT TIME	05H←	←
PLLW4	PLL WAIT TIME	14H←	←
PLLW5	PLL WAIT TIME	04H←	←
OPT2	TV SET OPTION 2 (HOTEL MODE)	00H←	←

Adjusting the Data

Pressing of VOLUME +/- button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

Exit from Service Mode

Pressing POWER button to turn off the TV once.

Initialization of Memory Data of QA02

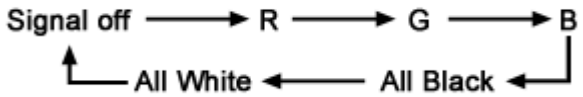
After replacing QA02, the following initialization is required.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the remote control, then press the CH ▲ button on the TV.
 The initialization of QA02 has been completed.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
 Perform "Auto tune" on the owner's manual.

Test Signal Selection

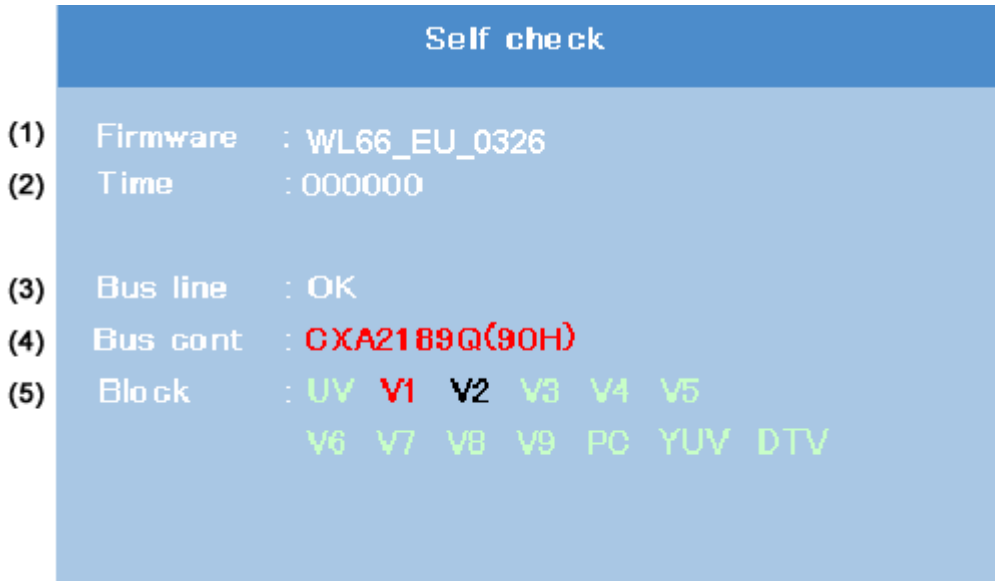
Every pressing of button on the remote control changes the built-in test patterns on screen as described below in Service Mode.



Picture	Signal
	Red raster
	Green raster
	Blue raster
	All Black
	All White

Self Diagnostic Function

1. Press "9" button on remote control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's is executed properly.
2. During diagnosis, the following displays are shown.



(1) Firmware :
Version information of microprocessor
In case of file name : WL66_EU and Version : 0326 indicates [WL66_EU_0326].

(2) Time : Total hour of turn the TV on. (Unit : H)

(3) Bus line : -- "OK" is normal
SCL-GND (Red indication) : SCL-GND short circuit
SDA-GND (Red indication) : SDA-GND short circuit
SCL-SDA (Red indication) : SCL-SDA short circuit

(4) Bus cont : --- "OK" is normal.
NG is abnormal (Red indication).
When type name of semiconductor indicates.

(5) Block
UV : TV reception mode
V1 - V9 : VIDEO 1-9 input mode
PC : PC mode
YUV : YUV mode
DTV : DTV mode

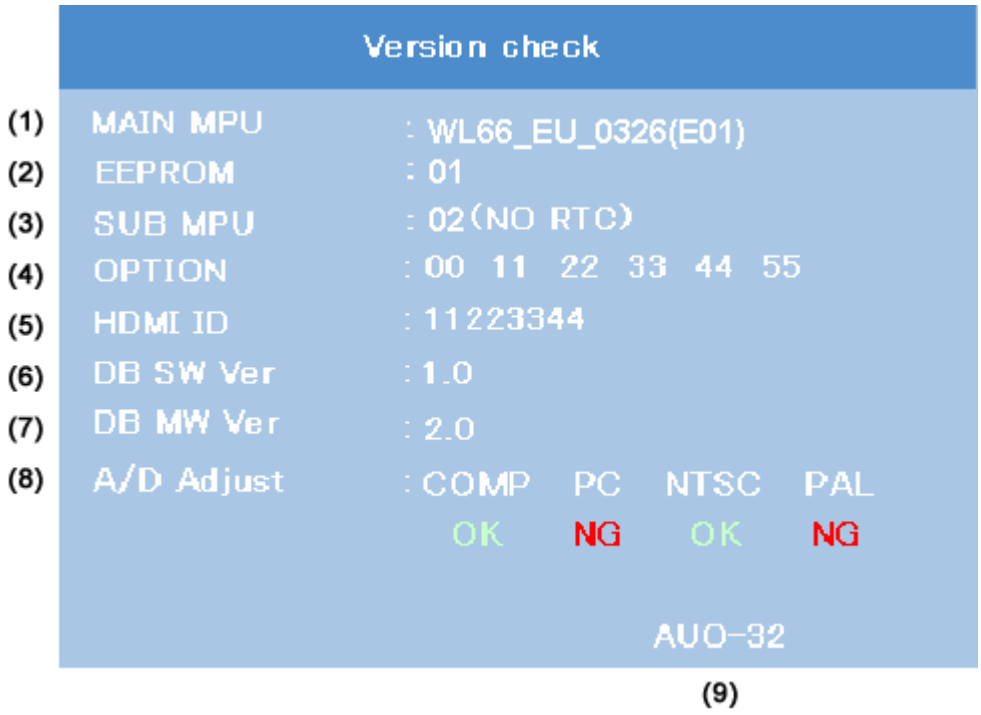
	WL66P/WLT66/WLG66
UV	RF

V1	1 (SCART (FULL))
V2	2 (SCART (S+AV))
V3	3 (Composite/Component)
V4	HDMI1
V5	HDMI2
V6	--
V7	--
V8	--
V9	--
PC	PC
YUV	--
DTV	--

Version Check Mode

1. Press "9" button twice on remote control during display of adjustment menu in the service mode.
 The version of main MPU will begin to check.

2. During Version Check, the following displays are shown.



(1) MAIN MPU :

Version information of microprocessor

In case of file name : WL66_EU, Version 0326 for Code Program Version and (E01) for OSD Version indicates [WL66_EU_0326 (E01)]

(2) EEPROM :

Version information of EEPROM : Display 1 byte data.

(3) SUB MPU :

Version information of SUB MPU : Display 1 byte data.

(4) OPTION :

Option information : Display six numbers of 1 byte data.

(5) HDMI ID :

HDMI ID information : Display 4 byte data.

(6) SW Ver

Version information of DB software. (Only digital model.)

(7) MW Ver

Version information of DB software middleware. (Only digital model)

(8) A/D Adjust

A/D adjustment item.

--COMP : Component input

--PC : PC input

--PAL : PAL (50 Hz) SD signal (composite input)

--NTSC : NTSC (60 Hz) SD signal (composite input)

--OK : A/D adjustment set correctly.

--NG : A/D adjustment set incorrect.

(9) LCD Panel Vender information display

The following Panel Vender and screen size are displayed.

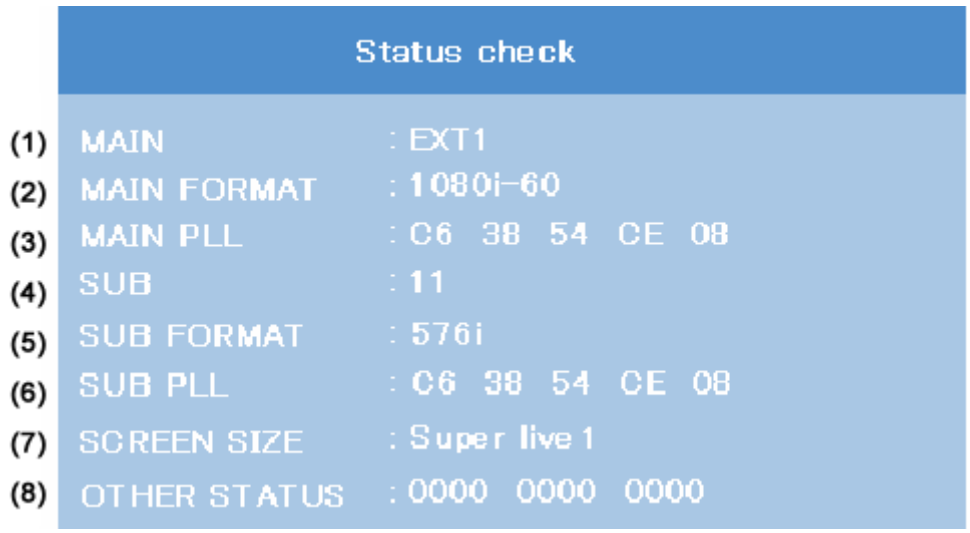
Panel Vender	Screen Size (Inch)
LPL	-26
SHP	-32
CMO	-37
AUO	-42 -47

Example : AUO-32 indicates that Vender is AUO and Screen Size is 32 inch.

Status Check Mode

1. Press "9" button thrice on remote control during display of adjustment menu in the service mode.
 The status of this model will begin to check.

2. During Status Check, the following displays are shown.



(1) MAIN :

Main source information :

Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

(2) MAIN FORMAT :

Display Video and PC format information

(3) MAIN PLL :

Main PLL information : Display 1 byte data at five.

(4) SUB :

Sub source information :

Display RF position number (0 - 99) on the Sub screen, or Input Source (EXT1/2/3/HDMI etc.)

This item displays only Double window model.

(5) SUB FORMAT :

Display Video and PC format information

This item displays only Double window model.

(6) SUB PLL :

Sub PLL information : Display 1 byte data at five.

This item displays only Double window model.

(7) SCREEN SIZE :

Display the screen size as follows.

Exact Scan
Wide
Super Live 2
Cinema 2
4:3
Super Live 1
Cinema 1
Subtitle
14:9

(8) OTHER STATUS :

Other status information : Display three numbers of 2 byte data.

Setting Hotel Mode

Enter to service mode and select Hotel Mode menu by pressing P▲ or P▼.
After selecting Hotel Mode, press ◿ + to enter details setting in Hotel Mode.

To select menu, press P▲ or P▼ and press OK to enter the adjustment menu of OPT2.
To move the cursor in the adjustment, press ◿ + or ◿ -.

1. By pressing P▲ or P▼, OPT2 setting will change the value either 1 or 0 on selected items as follows;

OPT2	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	POS1 stored program will appear in forced when turn ON the main power	POS1 in forced	Disable
D6 (bit6)	VIDEO1 stored program will appear in forced when turn ON the main power	VIDEO1 in forced	Disable
D5 (bit5)	FRONT Key	Disable	Enable
D4 (bit4)	Front keys except input selector key (Video/TV)	Disable	Enable
D3 (bit3)	User remote control operation	Disable	Enable

		(Service mode and Super User mode may possible to setting only)	
D2 (bit2)	Language display except SETUP MENU language (tuning adjustment etc.)	Disable Display the language only	Enable
D1 (bit1)	SETUP MENU	Disable	Enable
D0 (bit0)	HOTEL Mode	On (Enable the setting of D1 to D7)	Off (Normal)

LED Indications

The Green and Red LEDs on the TV (at the bottom center of the TV) indicate the TV's status, as described below.

- Red ON (solid) and Green OFF = The TV power cord is plugged in.
- Green ON (solid) and Red ON = The On timer is operating.

	LED Indication	Condition	Solution
1	Green is OFF; Red blinks continuously at 0.5-second intervals.	Abnormal operation	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
2	Green is OFF; Red blinks continuously at 1-second intervals.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and
should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with ✱ mark is no longer available after the end of the production.

Abbreviations

Capacitors CD : Ceramic Disk

Resistors CF : Carbon film
OMF : Oxide Metal Film

PF : Plastic Film
CC : Carbon Composition
VR : Variable Resistor
EL : Electrolytic
MF : Metal Film
FR : Fusible Resistor

All CD and PF capacitors are ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

U01A POWER (PE0071A1)

	Location	Parts No.	Description
*	U01A	75002162	PC BOARD ASSY, PE0071A1, POWER
⚠	C812	76109102	CERAMIC CHIP, 50V B 1000PF K
	C814	76109102	CERAMIC CHIP, 50V B 1000PF K
	C815	76073037	ELECTROLYTIC, 16V 47UF M
	C815A	23960136	ADHESIVE, SILICONE, TSE3843-W
	C816	76109102	CERAMIC CHIP, 50V B 1000PF K
	C817	76109102	CERAMIC CHIP, 50V B 1000PF K
	C818	76669010	ELECTROLYTIC, 50V 1UF M
	C819	76539474	PLASTIC FILM, 50V 0.47UF J
	C820	76125010	CHEMICON CE69R 450V 270UF M 3H
	C821	76125011	CHEMICON CE04R 450V 82UF M 4A
	C822	76214103	CERAMIC DISC, 500V B 0.01UF K
	C824	76168008	MT PLA 450V 1UF K
	C825	76168008	MT PLA 450V 1UF K
	C826	76092339	CERAMIC DISC, 2KV 330PF K
	C827	76092339	CERAMIC DISC, 2KV 330PF K
	C840	76125009	CHEMICON 450V 47UF M
	C843	76166001	CERAMIC DISK CC45 SL 3.15KV 47PF J
	C844	76669479	ELECTROLYTIC, 50V 4.7UF M
	C845	76073196	ELECTROLYTIC, 50V 22UF M 3A
	C846	76073140	ELECTROLYTIC CE04P 10V 680UF M 3A
	C847	76665471	ELECTROLYTIC, 10V 470UF M
	C848	76214471	CERAMIC DISC, 500V B 470PF K
	C849A	23960136	ADHESIVE, SILICONE, TSE3843-W
	C860	76214103	CERAMIC DISC, 500V B 0.01UF K
	C861	76503053	PLASTIC FILM, 63V 1UF J
	C862	76669229	ELECTROLYTIC, 50V 2.2UF M
	C863	76503049	PLASTIC FILM, 63V 0.47UF J
	C864	76539224	PLASTIC FILM, 50V 0.22UF J
	C865	76539224	PLASTIC FILM, 50V 0.22UF J
	C866	76092341	CERAMIC DISC, 2KV R 470PF K
	C868	76435221	CERAMIC DISC, 500V SL 220PF J
	C869	76435221	CERAMIC DISC, 500V SL 220PF J
	C870	76503425	PLASTIC FILM CQ92 3D2J473J-K5
	C872	76073189	ELECTROLYTIC, 35V 1000UF M
	C873	76073189	ELECTROLYTIC, 35V 1000UF M

	C876	76073204	ELECTROLYTIC CE04P 50V 330UF M 3A
	C877	76669229	ELECTROLYTIC, 50V 2.2UF M
	C878	76503041	PLASTIC FILM, 63V 0.1UF J
	C880	76503229	PLASTIC FILM, 1250VH 1000PF H
	C881	76092337	CERAMIC DISC, 2KV 220PF K
	C882	76539334	PLASTIC FILM, 50V 0.33UF J
	C883	76212221	CERAMIC DISC, 50V B 220PF K
	C884	76073196	ELECTROLYTIC, 50V 22UF M 3A
	C885	76214471	CERAMIC DISC, 500V B 470PF K
	C886	76212152	CERAMIC DISC, 50V B 1500PF K
	C887	76214471	CERAMIC DISC, 500V B 470PF K
	C888	76073189	ELECTROLYTIC, 35V 1000UF M
	C889	76073189	ELECTROLYTIC, 35V 1000UF M
	C890	76796102	ELECTROLYTIC, 35V 1000UF M
	C891	76214471	CERAMIC DISC, 500V B 470PF K
	C892	76676100	ELECTROLYTIC, 100V 10UF M
	C893	76747220	ELECTROLYTIC, 50V 22UF M
	C894	76214471	CERAMIC DISC, 500V B 470PF K
	C895	76073188	ELECTROLYTIC, 35V 680UF M
	C896	76073188	ELECTROLYTIC, 35V 680UF M
	C897	76796102	ELECTROLYTIC, 35V 1000UF M
	C898	76669010	ELECTROLYTIC, 50V 1UF M
	C8171	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C8191	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C8210	76105331	CERAMIC CHIP, 50V CH 330PF J
	C8211	76815473	CERAMIC CHIP, 50V B 0.047UF K
	C8212	76092178	CERAMIC CHIP, 25V B 0.1UF K
	C8213	76109102	CERAMIC CHIP, 50V B 1000PF K
	C8241	76073196	ELECTROLYTIC, 50V 22UF M 3A
	C8250	76092341	CERAMIC DISC, 2KV R 470PF K
	C8251	76434100	CERAMIC DISC, 500V SL 10PF D
	C8390	76109102	CERAMIC CHIP, 50V B 1000PF K
	C8401	76092733	CERAMIC CHIP, 50V B 0.022UF K
	C8402	76092733	CERAMIC CHIP, 50V B 0.022UF K
	C8403	76669470	ELECTROLYTIC, 50V 47UF M
	C8490	76669010	ELECTROLYTIC, 50V 1UF M
	C8601	76591682	PLASTIC FILM, 50V 6800PF J
	C8602	76212101	CERAMIC DISC, 50V B 100PF K

	C8605	76285104	CERAMIC CHIP, 50V B 0.1UF K
	C8701	76539224	PLASTIC FILM, 50V 0.22UF J
	C8702	76287224	CHIP CER 50V F 224Z GRM319F11H224ZA01D
	C8703	76109102	CERAMIC CHIP, 50V B 1000PF K
	C8801	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C8802	76092883	CERAMIC CHIP, 50V B 0.1UF K
	C8891	76503049	PLASTIC FILM, 63V 0.47UF J
	D811	23357841	DIODE, ZENER, MTZJ6.8A
	D815	23357692	DIODE, ZENER, RD2.0ESA B2
	D816	23357738	DIODE, ZENER, MA8047-L
	D819	23357718	THYRISTOR, SF0R3G42(N, G5H1)
	D820	23357913	DIODE, RBV-1506, LF-A
	D820B	23717240	SCREW, BITTB3X10SZN
	D821	23362240	DIODE, FMC-26UAR
	D821B	23717240	SCREW, BITTB3X10SZN
	D822	23362220	DIODE, FMX-G16S
	D822B	23717240	SCREW, BITTB3X10SZN
	D823	23362223	DIODE, RM3A, LF014-102
	D825	23357899	DIODE, ZENER, MTZJ33A
	D826	23357513	DIODE, EU2A
	D828	75001869	VARISTOR, V1=470V 2500A/2
	D841	23362221	DIODE, EM1C, LF-F7
	D842	23362221	DIODE, EM1C, LF-F7
	D843	23357854	DIODE, ZENER, MTZJ10B
	D844	23357837	DIODE, ZENER, MTZJ5.6B
	D845	23357510	DIODE, AG01
	D846	23357513	DIODE, EU2A
	D860	23357850	DIODE, ZENER, MTZJ9.1A
	D861	23357893	DIODE, ZENER, MTZJ27C
	D862	23357893	DIODE, ZENER, MTZJ27C
	D863	23357854	DIODE, ZENER, MTZJ10B
	D864	23357854	DIODE, ZENER, MTZJ10B
	D865	23357513	DIODE, EU2A
	D866	23357853	DIODE, ZENER, MTZJ10A
	D870	75002164	DIODE, FMEN-220A(LF023-108)
	D870B	23717240	SCREW, BITTB3X10SZN
	D871	75002164	DIODE, FMEN-220A(LF023-108)
	D871B	23717240	SCREW, BITTB3X10SZN

	D874	75002164	DIODE, FMEN-220A(LF023-108)
	D874B	23717240	SCREW, BITTB3X10SZN
	D880	23357513	DIODE, EU2A
	D881	23357104	DIODE, 1SS244
	D882	23357104	DIODE, 1SS244
	D883	23357837	DIODE, ZENER, MTZJ5.6B
	D884	75002164	DIODE, FMEN-220A(LF023-108)
	D884B	23717240	SCREW, BITTB3X10SZN
	D885	23357513	DIODE, EU2A
	D886	23357408	DIODE, FMX-12S(023-108)
	D886B	23717240	SCREW, BITTB3X10SZN
	D887	23357900	DIODE, ZENER, MTZJ33B
	D888	23357848	DIODE, ZENER, MTZJ8.2B
	D889	23357848	DIODE, ZENER, MTZJ8.2B
	D890	23357847	DIODE, ZENER, MTZJ8.2A
	D891	23357847	DIODE, ZENER, MTZJ8.2A
	D892	23357892	DIODE, ZENER, MTZJ27B
	D8230	23357792	DIODE, ZENER, MA8240-L, TX
	D8231	23357703	DIODE, 1SS355
	D8232	23357745	DIODE, ZENER, MA8056-M
	D8271	23357697	DIODE, 1SS133
	D8272	23357910	DIODE, ZENER, MTZJ39D
	D8273	23357883	DIODE, ZENER, MTZJ22A
	D8274	23357883	DIODE, ZENER, MTZJ22A
	D8310	23357703	DIODE, 1SS355
	D8311	23357745	DIODE, ZENER, MA8056-M
	D8312	23357703	DIODE, 1SS355
	D8313	23357762	DIODE, ZENER, MA8091-M
	D8390	23357889	DIODE, ZENER, MTZJ24C
	D8391	23357890	DIODE, ZENER, MTZJ24D
	D8401	23357703	DIODE, 1SS355
	D8402	23357703	DIODE, 1SS355
	D8403	23357703	DIODE, 1SS355
	D8404	23357703	DIODE, 1SS355
	D8601	23357703	DIODE, 1SS355
	D8602	23357731	DIODE, ZENER, MA8033-H
	D8701	23357703	DIODE, 1SS355
	D8702	23357703	DIODE, 1SS355

	D8705	23357894	DIODE, ZENER, MTZJ27D
	D8706	23357703	DIODE, 1SS355
	D8801	23357703	DIODE, 1SS355
	D8802	23357703	DIODE, 1SS355
	D8803	23357778	DIODE, ZENER, MA8150-M
	D8804	23357703	DIODE, 1SS355
	D8805	23357745	DIODE, ZENER, MA8056-M
	F820	23144378	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 2A
	F870	23144378	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 2A
	L820	23248491	COIL, CHOKE, TLN3641AF
	L821	23248491	COIL, CHOKE, TLN3641AF
	L824	23103330	FERRITE CHOKE, 3.5X5X2, TEM2014AH
	L825	23103304	FERRITE CHOKE, TEM2011AA
	L840	23289981	COIL, PEAKING, TRF4330AZ
	L860	23103320	COIL, CHOKE, TEM2011
	L862	23103320	COIL, CHOKE, TEM2011
	L870	23103320	COIL, CHOKE, TEM2011
	L871	23103320	COIL, CHOKE, TEM2011
	L878	23248489	COIL, CHOKE, TLN3639AH
	L880	23103304	FERRITE CHOKE, TEM2011AA
	L881	23248388	COIL, CHOKE, TLN3515AA
	L883	23103304	FERRITE CHOKE, TEM2011AA
	L884	23248387	COIL, CHOKE, TLN3499AA
	L886	23103304	FERRITE CHOKE, TEM2011AA
	L8211	23103330	FERRITE CHOKE, 3.5X5X2, TEM2014AH
	L8212	23103330	FERRITE CHOKE, 3.5X5X2, TEM2014AH
	P802B	23757043	CONNECTOR, PLUG, B02B-VT-K(LF)(SN)
	P807B	23713764	PLUG, 13P
	P809B	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
	P860	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P861	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	PG03	23165495	EARTH TERMINAL, MET31-0332
	Q812	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q813	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q814	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q815	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q816	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q820	23135094	IC, SRX2039

	Q820B	23717240	SCREW, BITTB3X10SZN
	Q821	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q822	23205339	TRANSISTOR, 2SC2655-Y(F)
	Q840	23135083	IC, STRA6169
	Q841	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q842	23085587	IC, TA76431S
	Q860	23135066	IC, STRZ4479
	Q862	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q863	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q864	23205339	TRANSISTOR, 2SC2655-Y(F)
	Q870	23085587	IC, TA76431S
	Q880	23135072	IC, STRW6765
	Q880B	23717240	SCREW, BITTB3X10SZN
	Q881	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q882	23085587	IC, TA76431S
	Q8191	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q8230	23205328	TRANSISTOR, RN1405(F)
	Q8231	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q8310	23205328	TRANSISTOR, RN1405(F)
	Q8311	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q8312	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q8390	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q8391	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q8601	23205329	TRANSISTOR, RN1404(F)
	Q8602	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q8701	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
	Q8702	23205329	TRANSISTOR, RN1404(F)
	Q8703	23205328	TRANSISTOR, RN1405(F)
	Q8704	23085338	IC, BD5245G-TR
	Q8801	23205329	TRANSISTOR, RN1404(F)
	Q8802	23205329	TRANSISTOR, RN1404(F)
	R812	76011473	CHIP, 1/20W 47K OHM J
	R820	76019461	METAL PLATE, 2W 0.15 OHM J
	R821	76019461	METAL PLATE, 2W 0.15 OHM J
	R826	76004714	METAL GLAZE, 1/2W 1.2M OHM J
	R830	76120001	CEMENT RES 141C 2.1W 1R8 K
	R831	76120003	CERAMIC COVERED G 5W 4.7 J
	R840	76382823	OXIDE METAL FILM, 1W 82K OHM J

	R841	76322339	METAL FILM 1W 3R3 J
	R842	76310479	OXIDE METAL FILM, 1/2W 4.7 OHM J
	R860	76552271	OXIDE METAL FILM, 1/2W 270 OHM J
	R862	76552681	OXIDE METAL FILM, 1/2W 680 OHM J
	R863	76011272	CHIP, 1/20W 2.7K OHM J
	R864	76552101	OXIDE METAL FILM, 1/2W 100 OHM J
	R865	76552100	OXIDE METAL FILM, 1/2W 10 OHM J
	R867	76552330	OXIDE METAL FILM, 1/2W 33 OHM J
	R880	76553683	OXIDE METAL FILM, 1W 68K OHM J
	R881	76553683	OXIDE METAL FILM, 1W 68K OHM J
	R882	76323569	METAL FILM 2W 5R6 J
	R883	76079010	METAL FILM, 2W 0.47 OHM J
	R884	76321339	OXIDE METAL FILM, 1/2W 3.3 OHM J
	R885	76553101	OXIDE METAL FILM, 1W 100 OHM J
	R886	76554432	OXIDE FILM 2W 4.3K J
	R8110	76000250	METAL FILM, 1/4W 56K OHM F
	R8111	76000250	METAL FILM, 1/4W 56K OHM F
	R8112	76000250	METAL FILM, 1/4W 56K OHM F
	R8113	76000250	METAL FILM, 1/4W 56K OHM F
	R8114	76000527	METAL FILM, 1/4W 5.6K OHM F
	R8115	76000639	METAL FILM, 1/4W 22K OHM F
	R8116	76000554	CHIP 1/16W 510 F
	R8117	76000574	CHIP, 1/16W 2.7K OHM F
	R8118	76000574	CHIP, 1/16W 2.7K OHM F
	R8130	76871182	CHIP, 1/8W 1.8K OHM J
	R8131	76871182	CHIP, 1/8W 1.8K OHM J
	R8132	76871182	CHIP, 1/8W 1.8K OHM J
	R8133	76011102	CHIP, 1/20W 1K OHM J
	R8140	76011682	CHIP, 1/20W 6.8K OHM J
	R8141	76011473	CHIP, 1/20W 47K OHM J
	R8142	76872470	CHIP, 1/16W 47 OHM J
	R8143	76872470	CHIP, 1/16W 47 OHM J
	R8144	76872390	CHIP, 1/16W 39 OHM J
	R8150	76011562	CHIP, 1/20W 5.6K OHM J
	R8151	76011222	CHIP, 1/20W 2.2K OHM J
	R8152	76011473	CHIP, 1/20W 47K OHM J
	R8160	76011103	CHIP, 1/20W 10K OHM J
	R8161	76011473	CHIP, 1/20W 47K OHM J

	R8162	76011103	CHIP, 1/20W 10K OHM J
	R8191	76000445	CHIP JUMPER, 1608TYPE
	R8192	76011471	CHIP, 1/20W 470 OHM J
	R8193	76011102	CHIP, 1/20W 1K OHM J
	R8194	76011151	CHIP, 1/20W 150 OHM J
	R8195	76011151	CHIP, 1/20W 150 OHM J
	R8210	76998471	CHIP, 1/16W 470 OHM
	R8212	76998102	CHIP, 1/16W 1K OHM
	R8213	76011222	CHIP, 1/20W 2.2K OHM J
	R8214	76000445	CHIP JUMPER, 1608TYPE
	R8215	76998222	CHIP, 1/16W 2.2K OHM
	R8216	76998222	CHIP, 1/16W 2.2K OHM
	R8217	76011229	CHIP, 1/16W 2.2 OHM J
	R8218	76998152	CHIP, 1/16W 1.5K OHM D
	R8230	76872332	CHIP, 1/16W 3.3K OHM J
	R8231	76011223	CHIP, 1/20W 22K OHM J
	R8232	76011472	CHIP, 1/20W 4.7K OHM J
	R8233	76011473	CHIP, 1/20W 47K OHM J
	R8240	76000598	CHIP, 1/16W 47K OHM F
	R8241	76000598	CHIP, 1/16W 47K OHM F
	R8242	76000598	CHIP, 1/16W 47K OHM F
	R8243	76000598	CHIP, 1/16W 47K OHM F
	R8244	76000598	CHIP, 1/16W 47K OHM F
	R8245	76000598	CHIP, 1/16W 47K OHM F
	R8246	76000598	CHIP, 1/16W 47K OHM F
	R8247	76000598	CHIP, 1/16W 47K OHM F
	R8248	76000598	CHIP, 1/16W 47K OHM F
	R8249	76000445	CHIP JUMPER, 1608TYPE
	R8310	76011223	CHIP, 1/20W 22K OHM J
	R8312	76011471	CHIP, 1/20W 470 OHM J
	R8313	76011102	CHIP, 1/20W 1K OHM J
	R8390	76011473	CHIP, 1/20W 47K OHM J
	R8391	76011102	CHIP, 1/20W 1K OHM J
	R8392	76011681	CHIP, 1/20W 680 OHM J
	R8393	76011681	CHIP, 1/20W 680 OHM J
	R8394	76011681	CHIP, 1/20W 680 OHM J
	R8395	76011681	CHIP, 1/20W 680 OHM J
	R8396	76011222	CHIP, 1/20W 2.2K OHM J

	R8403	76011102	CHIP, 1/20W 1K OHM J
	R8404	76011101	CHIP, 1/20W 100 OHM J
	R8405	76011102	CHIP, 1/20W 1K OHM J
	R8406	76011473	CHIP, 1/20W 47K OHM J
	R8407	76000572	CHIP 1/16W 3.3K F
	R8408	76000422	CHIP 1/16W 2.2K F
	R8409	76011102	CHIP, 1/20W 1K OHM J
	R8410	76000445	CHIP JUMPER, 1608TYPE
	R8411	76321479	OXIDE METAL FILM, 1/2W 4.7 OHM J
	R8412	76871822	CHIP, 1/8W 8.2K OHM J
	R8601	76000247	METAL FILM, 1/4W 39K OHM F
	R8602	76366472	CARBON FILM, 1/6W 4.7K OHM J
	R8603	76011103	CHIP, 1/20W 10K OHM J
	R8604	76011102	CHIP, 1/20W 1K OHM J
	R8605	76011472	CHIP, 1/20W 4.7K OHM J
	R8606	76011103	CHIP, 1/20W 10K OHM J
	R8607	76872221	CHIP, 1/16W 220 OHM J
	R8701	76000595	CHIP 1/16W 15K F
	R8702	76190012	CHIP, 1/16W 1.5K OHM F
	R8703	76011221	CHIP, 1/20W 220 OHM J
	R8704	76000445	CHIP JUMPER, 1608TYPE
	R8705	76011220	CHIP, 1/20W 22 OHM J
	R8706	76011103	CHIP, 1/20W 10K OHM J
	R8707	76011103	CHIP, 1/20W 10K OHM J
	R8709	76011101	CHIP, 1/20W 100 OHM J
	R8710	76011101	CHIP, 1/20W 100 OHM J
	R8711	76011223	CHIP, 1/20W 22K OHM J
	R8712	76011473	CHIP, 1/20W 47K OHM J
	R8713	76011103	CHIP, 1/20W 10K OHM J
	R8714	76011102	CHIP, 1/20W 1K OHM J
	R8715	76011102	CHIP, 1/20W 1K OHM J
	R8716	76011103	CHIP, 1/20W 10K OHM J
	R8801	76011102	CHIP, 1/20W 1K OHM J
	R8802	76011102	CHIP, 1/20W 1K OHM J
	R8803	76366221	CARBON FILM, 1/6W 220 OHM J
	R8804	76871222	CHIP, 1/8W 2.2K OHM J
	R8805	76011102	CHIP, 1/20W 1K OHM J
	R8806	76011102	CHIP, 1/20W 1K OHM J

	R8807	76011152	CHIP, 1/20W 1.5K OHM J
	R8808	76011101	CHIP, 1/20W 100 OHM J
	R8809	76011223	CHIP, 1/20W 22K OHM J
	R8810	76000605	CHIP, 1/16W 6.8K OHM F
	R8811	76190012	CHIP, 1/16W 1.5K OHM F
	R8812	76000446	CHIP 1/16W 220 F
	R8813	76000824	CHIP JUMPER, 2125TYPE
	R8814	76011103	CHIP, 1/20W 10K OHM J
	R8815	76872151	CHIP, 1/16W 150 OHM J
	SR80	23146588	RELAY, DLS5D1-O(M) 0.15W
⚠	SR81	23146587	RELAY, DC12V 0.53W, G5PA-1-M
	T820	23217799	TRANSFORMER, CONVERTER, TPW3564AS
	T822	23248490	COIL, CHOKE, TLN3640AH
	T840	23217800	TRANSFORMER, CONVERTER, TPW3565AS
	T860	23217802	TRANSFORMER, CONVERTER, TPW3567AS
	T880	23217801	TRANSFORMER, CONVERTER, TPW3566AS

U01B AC IN (PE0071A2)

	Location	Parts No.	Description
*	U01B	75002163	PC BOARD ASSY, PE0071A2, AC IN
⚠	C801	76168007	MT PLA AC275V 1UF M
⚠	C802	76503508	MT PLA PCX2 337 11474
	C806	76092567	CERAMIC DISC, AC250V E 1000PF M
	C807	76092567	CERAMIC DISC, AC250V E 1000PF M
	C808	76092565	CERAMIC DISC, AC250V B 470PF K
	C809	76092565	CERAMIC DISC, AC250V B 470PF K
	D809	75001869	VARISTOR, V1=470V 2500A/2
⚠	F801	23144406	FUSE, CERA 5.2X20, 250V 6.3A
	F801A	23165433	FUSE HOLDER, 5.2
	F801B	23165433	FUSE HOLDER, 5.2
⚠	P801A	23713702	PLUG, 2P 11.88MM W VT
⚠	P802A	23757043	CONNECTOR, PLUG, B02B-VT-K(LF)(SN)
	PG01	23165495	EARTH TERMINAL, MET31-0332
⚠	R801	76017004	METAL GLAZE 1/2W 510K J
	R809	76004718	METAL GLAZE, 1/2W 8.2M OHM J
⚠	T801	23211904	COIL, LINE FILTER, TRF3255AF
⚠	T802	23211904	COIL, LINE FILTER, TRF3255AF

U02A LOW B (PE0063C1)

	Location	Parts No.	Description
*	U02A	75002165	PC BOARD ASSY, PE0063C1, LOW B
	CE10	76666470	ELECTORLYTIC, 16V 47UF M
	CE11	76539474	PLASTIC FILM, 50V 0.47UF J
	CE12	76666470	ELECTORLYTIC, 16V 47UF M
	CE40	76073204	ELECTROLYTIC CE04P 50V 330UF M 3A
	CE41	76073158	ELECTROLYTIC, 16V 2200UF M 3A
	CE42	76666102	ELECTROLYTIC, 16V 1000UF M 3A
	CE43	76539104	PLASTIC FILM, 50V 0.1UF J
	CE44	76539104	PLASTIC FILM, 50V 0.1UF J
	CE45	76539104	PLASTIC FILM, 50V 0.1UF J
	CE46	76539684	PLASTIC FILM, 50V 0.68UF J
	CE47	76539684	PLASTIC FILM, 50V 0.68UF J
	CE60	76073186	ELECTROLYTIC, 35V 470UF M
	CE61	76617028	ELECTROLYTIC, 16V 1200UF M
	CE62	76073020	ELECTROLYTIC, 10V 1000UF M 3A
	CE63	76539104	PLASTIC FILM, 50V 0.1UF J
	CE64	76539104	PLASTIC FILM, 50V 0.1UF J
	CE70	76073186	ELECTROLYTIC, 35V 470UF M
	CE71	76125012	ELECTROLYTIC 04CQ 25V 2700UF M A
	CE72	76073007	ELECTROLYTIC, 6.3V 3300UF M 3A
	CE73	76539104	PLASTIC FILM, 50V 0.1UF J
	CE74	76539104	PLASTIC FILM, 50V 0.1UF J
	CE75	76539334	PLASTIC FILM, 50V 0.33UF J
	CE76	76666470	ELECTORLYTIC, 16V 47UF M
	CE80	76666470	ELECTORLYTIC, 16V 47UF M
	CE90	76073186	ELECTROLYTIC, 35V 470UF M
	CE91	76617028	ELECTROLYTIC, 16V 1200UF M
	CE92	76666471	ELECTROLYTIC, 16V 470UF M
	CE93	76539104	PLASTIC FILM, 50V 0.1UF J
	CE94	76539104	PLASTIC FILM, 50V 0.1UF J
	DE01	23357706	DIODE, AK04
	DE02	23357706	DIODE, AK04
	DE03	23357823	DIODE, ZENER, MTZJ3.6A
	DE40	23357810	DIODE, FMB-G14L
	DE41	23357697	DIODE, 1SS133
	DE42	23357871	DIODE, ZENER, MTZJ15B

	DE45	23357718	THYRISTOR, SF0R3G42(N, G5H1)
	DE46	23357697	DIODE, 1SS133
	DE60	23357519	DIODE, RK44,
	DE61	23357697	DIODE, 1SS133
	DE62	23357845	DIODE, ZENER, MTZJ7.5B
	DE70	23357519	DIODE, RK44,
	DE71	23357697	DIODE, 1SS133
	DE72	23357829	DIODE, ZENER, MTZJ4.3C
	DE90	23357519	DIODE, RK44,
	DE91	23357697	DIODE, 1SS133
	DE92	23357871	DIODE, ZENER, MTZJ15B
	FE80	23144373	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 0.63A
	LE10	23289980	COIL, PEAKING, TRF4220AZ
	LE40	23248456	COIL, CHOKE, TLN3540AH
	LE41	23289980	COIL, PEAKING, TRF4220AZ
	LE42	23248417	COIL, CHOKE, TLN3481AH
	LE60	23248456	COIL, CHOKE, TLN3540AH
	LE61	23289980	COIL, PEAKING, TRF4220AZ
	LE62	23248432	COIL, CHOKE, TLN3499AH
	LE70	23248456	COIL, CHOKE, TLN3540AH
	LE71	23289980	COIL, PEAKING, TRF4220AZ
	LE72	23248432	COIL, CHOKE, TLN3499AH
	LE90	23248456	COIL, CHOKE, TLN3540AH
	LE91	23289980	COIL, PEAKING, TRF4220AZ
	LE92	23248432	COIL, CHOKE, TLN3499AH
	P803A	23713819	SOCKET, TWG-P23X-A1
	P807A	23713764	PLUG, 13P
	P809A	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
	P810A	23713814	SOCKET, 127301109K2
	PG04	23165495	EARTH TERMINAL, MET31-0332
	PG05	23165495	EARTH TERMINAL, MET31-0332
	PL106	23713758	PLUG, 7P 2.5MM G, B7B-EH-F1-TV4
	QE01	23205376	TRANSISTOR, 2SC5343-Y(BULK)
	QE02	23205315	TRANSISTOR, RN1206(F)
	QE10	23135077	IC, SI-3090CA
	QE11	23205315	TRANSISTOR, RN1206(F)
	QE12	23205376	TRANSISTOR, 2SC5343-Y(BULK)
	QE40	23085381	IC, SI-8050SS

	QE40B	23717240	SCREW, BITTB3X10SZN
	QE45	23205376	TRANSISTOR, 2SC5343-Y(BULK)
	QE46	23205376	TRANSISTOR, 2SC5343-Y(BULK)
	QE47	23205376	TRANSISTOR, 2SC5343-Y(BULK)
	QE48	23205376	TRANSISTOR, 2SC5343-Y(BULK)
	QE60	23085381	IC, SI-8050SS
	QE61	23205315	TRANSISTOR, RN1206(F)
	QE70	23085397	IC, SI-8033SS
	QE71	23205315	TRANSISTOR, RN1206(F)
	QE75	23085836	IC, PQ150VB01FZH
	QE80	23205340	TRANSISTOR, 2SA1020-Y(F)
	QE81	23205376	TRANSISTOR, 2SC5343-Y(BULK)
	QE90	23085381	IC, SI-8050SS
	QE90B	23717240	SCREW, BITTB3X10SZN
	QE91	23205376	TRANSISTOR, 2SC5343-Y(BULK)
	QE92	23205339	TRANSISTOR, 2SC2655-Y(F)
	QE93	23205315	TRANSISTOR, RN1206(F)
	RE01	76366153	CARBON FILM, 1/6W 15K OHM J
	RE02	76366473	CARBON FILM, 1/6W 47K OHM J
	RE03	76366472	CARBON FILM, 1/6W 4.7K OHM J
	RE04	76366472	CARBON FILM, 1/6W 4.7K OHM J
	RE06	76366473	CARBON FILM, 1/6W 47K OHM J
	RE09	76366473	CARBON FILM, 1/6W 47K OHM J
	RE10	76367180	CARBON FILM, 1/6W 18 OHM G
	RE11	76367222	CARBON FILM, 1/6W 2.2K OHM G
	RE12	76366472	CARBON FILM, 1/6W 4.7K OHM J
	RE13	76366153	CARBON FILM, 1/6W 15K OHM J
	RE14	76366473	CARBON FILM, 1/6W 47K OHM J
	RE15	76554561	OXIDE METAL FILM, 2W 560 OHM J
	RE16	76554561	OXIDE METAL FILM, 2W 560 OHM J
	RE17	76554561	OXIDE METAL FILM, 2W 560 OHM J
	RE40	76366102	CARBON FILM, 1/6W 1K OHM J
	RE41	76366681	CARBON FILM, 1/6W 680 OHM J
	RE42	76366121	CARBON FILM, 1/6W 120 OHM J
	RE43	76366102	CARBON FILM, 1/6W 1K OHM J
	RE44	76366153	CARBON FILM, 1/6W 15K OHM J
	RE45	76366562	CARBON FILM, 1/6W 5.6K OHM J
	RE46	76366682	CARBON FILM, 1/6W 6.8K OHM J

	RE47	76366331	CARBON FILM, 1/6W 330 OHM J
	RE48	76366471	CARBON FILM, 1/6W 470 OHM J
	RE49	76366102	CARBON FILM, 1/6W 1K OHM J
	RE60	76000142	METAL FILM, 1/4W 240 OHM F
	RE61	76000360	METAL FILM, 1/4W 1.2K OHM F
	RE63	76366102	CARBON FILM, 1/6W 1K OHM J
	RE65	76366332	CARBON FILM, 1/6W 3.3K OHM J
	RE66	76366473	CARBON FILM, 1/6W 47K OHM J
	RE67	76366103	CARBON FILM, 1/6W 10K OHM J
	RE68	76366473	CARBON FILM, 1/6W 47K OHM J
	RE70	76000159	METAL FILM, 1/4W 22 OHM F
	RE71	76000356	METAL FILM, 1/4W 820 OHM F
	RE73	76366102	CARBON FILM, 1/6W 1K OHM J
	RE74	76000145	METAL FILM, 1/4W 330 OHM F
	RE75	76366473	CARBON FILM, 1/6W 47K OHM J
	RE76	76366153	CARBON FILM, 1/6W 15K OHM J
	RE77	76182046	METAL FILM 1/4W 680 F
	RE78	76366102	CARBON FILM, 1/6W 1K OHM J
	RE79	76000220	METAL FILM, 1/4W 390 OHM F
	RE80	76552102	OXIDE METAL FILM, 1/2W 1K OHM J
	RE81	76366152	CARBON FILM, 1/6W 1.5K OHM J
	RE82	76366473	CARBON FILM, 1/6W 47K OHM J
	RE83	76366153	CARBON FILM, 1/6W 15K OHM J
	RE90	76000358	METAL FILM, 1/4W 1K OHM F
	RE91	76182046	METAL FILM 1/4W 680 F
	RE92	76366161	CARBON FILM 1/6W 160 J
	RE93	76366102	CARBON FILM, 1/6W 1K OHM J
	RE94	76553680	OXIDE METAL FILM, 1W 68 OHM J
	RE95	76366101	CARBON FILM, 1/6W 100 OHM J
	RE96	76366473	CARBON FILM, 1/6W 47K OHM J
	RE97	76366472	CARBON FILM, 1/6W 4.7K OHM J
	RE98	76366473	CARBON FILM, 1/6W 47K OHM J
	RE99	76366101	CARBON FILM, 1/6W 100 OHM J

U02A AV TERMINAL (PE0029A1)

	Location	Parts No.	Description
*	U02A	75002060	PC BOARD ASSY, PE0029A1, AV TERMINAL
	C101	76109103	CERAMIC CHIP, 50V B 0.01UF K
	C102	76073019	ELECTROLYTIC, 10V 470UF M
	C103	76109102	CERAMIC CHIP, 50V B 1000PF K
	C104	76766479	ELECTROLYTIC, 50V 4.7UF M
	C105	76073019	ELECTROLYTIC, 10V 470UF M
	C162	76105101	CERAMIC CHIP, 50V CH 100PF J
	C164	76100103	CERAMIC CHIP, 50V F 0.01UF Z
	C190	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C191	76092789	CERAMIC CHIP, 6.3V B 1UF K
	C192	76109103	CERAMIC CHIP, 50V B 0.01UF K
	C414	76794470	ELECTROLYTIC, 16V 47UF M
	C415	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	C416	76092731	CERAMIC CHIP, 16V B 1UF K
	C417	76109221	CERAMIC CHIP, 50V B 220PF K
	C419	76109222	CERAMIC CHIP, 50V B 2200PF K
	C457	76092731	CERAMIC CHIP, 16V B 1UF K
	C458	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	C459	76105220	CERAMIC CHIP, 50V CH 22PF J
	C460	76109221	CERAMIC CHIP, 50V B 220PF K
	C461	76109152	CERAMIC CHIP, 50V B 1500PF K
	C462	76109222	CERAMIC CHIP, 50V B 2200PF K
	C463	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C465	76109152	CERAMIC CHIP, 50V B 1500PF K
	C601	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C602	76109331	CERAMIC CHIP, 50V B 330PF K
	C603	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C606	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
	C608	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C610	76092731	CERAMIC CHIP, 16V B 1UF K
	C611	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C613	76092731	CERAMIC CHIP, 16V B 1UF K
	C614	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C620	76092463	CERAMIC CHIP, 16V B 0.22UF K
	C621	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C622	76092463	CERAMIC CHIP, 16V B 0.22UF K

	C623	76092463	CERAMIC CHIP, 16V B 0.22UF K
	C624	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C625	76092463	CERAMIC CHIP, 16V B 0.22UF K
	C627	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C629	76669010	ELECTROLYTIC, 50V 1UF M
	C630	76092730	CERAMIC CHIP, 16V B 0.1UF K
	C635	76666221	ELECTROLYTIC, 16V 220UF M
	C636	76666221	ELECTROLYTIC, 16V 220UF M
	C640	76092738	CERAMIC CHIP, 25V B 0.47UF K
	C641	76092738	CERAMIC CHIP, 25V B 0.47UF K
	C642	76285104	CERAMIC CHIP, 50V B 0.1UF K
	C643	76285104	CERAMIC CHIP, 50V B 0.1UF K
	C645	76109103	CERAMIC CHIP, 50V B 0.01UF K
	C665	76669339	ELECTROLYTIC, 50V 3.3UF M
	C666	76669339	ELECTROLYTIC, 50V 3.3UF M
	C667	76092515	CERAMIC CHIP, 16V F 4.7UF Z
	C669	76092515	CERAMIC CHIP, 16V F 4.7UF Z
	C672	76092726	CERAMIC CHIP, 10V B 2.2UF K
	C673	76092726	CERAMIC CHIP, 10V B 2.2UF K
	C675	76105221	CERAMIC CHIP, 50V CH 220PF J
	C676	76105221	CERAMIC CHIP, 50V CH 220PF J
	C677	76109391	CERAMIC CHIP, 50V B 390PF K
	C678	76109391	CERAMIC CHIP, 50V B 390PF K
	C685	76669010	ELECTROLYTIC, 50V 1UF M
	C686	76092463	CERAMIC CHIP, 16V B 0.22UF K
	C689	76092463	CERAMIC CHIP, 16V B 0.22UF K
	C690	76664102	ELECTROLYTIC, 6.3V 1000UF M
	C691	76666470	ELECTORLYTIC, 16V 47UF M
	C692	76666470	ELECTORLYTIC, 16V 47UF M
	C693	76092795	CERAMIC CHIP, 6.3V B 2.2UF K
	C695	76665471	ELECTROLYTIC, 10V 470UF M
	C696	76665471	ELECTROLYTIC, 10V 470UF M
	C4073	76105220	CERAMIC CHIP, 50V CH 22PF J
	CA01	76092538	CERAMIC CHIP, 10V F 1UF Z
	CA02	76105101	CERAMIC CHIP, 50V CH 100PF J
	CA06	76105100	CERAMIC CHIP, 50V CH 10PF D
	CA07	76105090	CERAMIC CHIP, 50V CH 9PF C
	CA19	76092538	CERAMIC CHIP, 10V F 1UF Z

	CA70	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CA71	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CA90	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CA91	76105101	CERAMIC CHIP, 50V CH 100PF J
	CA92	76105101	CERAMIC CHIP, 50V CH 100PF J
	CA93	76105101	CERAMIC CHIP, 50V CH 100PF J
	CC01	76109102	CERAMIC CHIP, 50V B 1000PF K
	CC02	76109102	CERAMIC CHIP, 50V B 1000PF K
	CC03	76109152	CERAMIC CHIP, 50V B 1500PF K
	CC04	76109152	CERAMIC CHIP, 50V B 1500PF K
	CC05	76109102	CERAMIC CHIP, 50V B 1000PF K
	CC06	76109102	CERAMIC CHIP, 50V B 1000PF K
	CC07	76109152	CERAMIC CHIP, 50V B 1500PF K
	CC08	76109152	CERAMIC CHIP, 50V B 1500PF K
	CC32	76105100	CERAMIC CHIP, 50V CH 10PF D
	CD80	76666470	ELECTORLYTIC, 16V 47UF M
	CD82	76669100	ELECTROLYTIC, 50V 10UF M
	CG01	76669100	ELECTROLYTIC, 50V 10UF M
	CG02	76109152	CERAMIC CHIP, 50V B 1500PF K
	CG03	76109471	CERAMIC CHIP, 50V B 470PF K
	CG04	76109221	CERAMIC CHIP, 50V B 220PF K
	CG05	76092730	CERAMIC CHIP, 16V B 0.1UF K
	CG06	76669100	ELECTROLYTIC, 50V 10UF M
	CG07	76669100	ELECTROLYTIC, 50V 10UF M
	CG09	76669220	ELECTROLYTIC, 50V 22UF M
	CG10	76669220	ELECTROLYTIC, 50V 22UF M
	CG11	76669220	ELECTROLYTIC, 50V 22UF M
	CG12	76669220	ELECTROLYTIC, 50V 22UF M
	CG13	76669100	ELECTROLYTIC, 50V 10UF M
	CG14	76669100	ELECTROLYTIC, 50V 10UF M
	CG15	76105101	CERAMIC CHIP, 50V CH 100PF J
	CG16	76105101	CERAMIC CHIP, 50V CH 100PF J
	CG17	76669470	ELECTROLYTIC, 50V 47UF M
	CG20	76669100	ELECTROLYTIC, 50V 10UF M
	CG21	76092730	CERAMIC CHIP, 16V B 0.1UF K
	CG22	76669100	ELECTROLYTIC, 50V 10UF M
	CG23	76109103	CERAMIC CHIP, 50V B 0.01UF K
	CG24	76669339	ELECTROLYTIC, 50V 3.3UF M

	CG25	76092730	CERAMIC CHIP, 16V B 0.1UF K
	CG26	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CG27	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CG28	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CG29	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CG30	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CG31	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CG32	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CG33	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CG34	76092730	CERAMIC CHIP, 16V B 0.1UF K
	CG35	76669100	ELECTROLYTIC, 50V 10UF M
	CG36	76669100	ELECTROLYTIC, 50V 10UF M
	CG37	76109152	CERAMIC CHIP, 50V B 1500PF K
	CG38	76109471	CERAMIC CHIP, 50V B 470PF K
	CG39	76105560	CERAMIC CHIP, 50V CH 56PF J
	CG40	76105560	CERAMIC CHIP, 50V CH 56PF J
	CG41	76105560	CERAMIC CHIP, 50V CH 56PF J
	CG42	76105050	CERAMIC CHIP, 50V CH 5PF C
	CG43	76105010	CERAMIC CHIP, 50V CK 1PF C
	CG44	76109102	CERAMIC CHIP, 50V B 1000PF K
	CG45	76109102	CERAMIC CHIP, 50V B 1000PF K
	CG46	76109102	CERAMIC CHIP, 50V B 1000PF K
	CG50	76669100	ELECTROLYTIC, 50V 10UF M
	CG51	76669100	ELECTROLYTIC, 50V 10UF M
	CG52	76105101	CERAMIC CHIP, 50V CH 100PF J
	CG53	76105101	CERAMIC CHIP, 50V CH 100PF J
	CG54	76109102	CERAMIC CHIP, 50V B 1000PF K
	CG55	76109102	CERAMIC CHIP, 50V B 1000PF K
	CS01	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS02	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS03	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS04	76797470	ELECTROLYTIC, 50V 47UF M
	CS05	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS06	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS07	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS08	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS09	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS10	76797470	ELECTROLYTIC, 50V 47UF M

	CS11	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS12	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS13	76797479	ELECTROLYTIC, 50V 4.7UF M
	CS14	76797479	ELECTROLYTIC, 50V 4.7UF M
	CS15	76797100	ELECTROLYTIC, 50V 10UF M
	CS16	76797100	ELECTROLYTIC, 50V 10UF M
	CS17	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS18	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS19	76797470	ELECTROLYTIC, 50V 47UF M
	CS20	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS21	76092726	CERAMIC CHIP, 10V B 2.2UF K
	CS22	76797479	ELECTROLYTIC, 50V 4.7UF M
	CS23	76797479	ELECTROLYTIC, 50V 4.7UF M
	CS24	76797100	ELECTROLYTIC, 50V 10UF M
	CS25	76797100	ELECTROLYTIC, 50V 10UF M
	CS26	76766100	ELECTROLYTIC, 50V 10UF M
	CS27	76766100	ELECTROLYTIC, 50V 10UF M
	CS28	76766100	ELECTROLYTIC, 50V 10UF M
	CS31	76073086	ELECTROLYTIC, 50V 10UF M
	CS32	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
	CS33	76092515	CERAMIC CHIP, 16V F 4.7UF Z
	CS34	76092731	CERAMIC CHIP, 16V B 1UF K
	CS35	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
	CS50	76109102	CERAMIC CHIP, 50V B 1000PF K
	CS51	76109102	CERAMIC CHIP, 50V B 1000PF K
	CS91	76105101	CERAMIC CHIP, 50V CH 100PF J
	CS92	76105101	CERAMIC CHIP, 50V CH 100PF J
	CV50	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CV51	76794100	ELECTROLYTIC, 16V 10UF M
	CV52	76794100	ELECTROLYTIC, 16V 10UF M
	CV53	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CV54	76794100	ELECTROLYTIC, 16V 10UF M
	CV55	76794100	ELECTROLYTIC, 16V 10UF M
	CV56	76794100	ELECTROLYTIC, 16V 10UF M
	CV57	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CV60	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CV61	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CV90	76100104	CERAMIC CHIP, 25V F 0.1UF Z

	CV201	76794101	ELECTROLYTIC, 16V 100UF M
	CV210	76092621	CERAMIC CHIP, 10V B 1UF K
	CV211	76092621	CERAMIC CHIP, 10V B 1UF K
	CV212	76793471	ELECTROLYTIC, 10V 470UF M
	CV213	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CV221	76092621	CERAMIC CHIP, 10V B 1UF K
	CV222	76092621	CERAMIC CHIP, 10V B 1UF K
	CV223	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CV224	76793471	ELECTROLYTIC, 10V 470UF M
	CV231	76092621	CERAMIC CHIP, 10V B 1UF K
	CV232	76092621	CERAMIC CHIP, 10V B 1UF K
	CV233	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CV234	76793471	ELECTROLYTIC, 10V 470UF M
	D401	23357703	DIODE, 1SS355
	D608	23357765	DIODE, ZENER, MA8100-M
	D621	23362140	DIODE, KDS160-RTK
	D622	23362214	DIODE, SCHOTTKY, RSX301L-30 TE25
	D623	23362214	DIODE, SCHOTTKY, RSX301L-30 TE25
	D624	23362140	DIODE, KDS160-RTK
	D625	23362140	DIODE, KDS160-RTK
	D626	23362214	DIODE, SCHOTTKY, RSX301L-30 TE25
	D627	23362214	DIODE, SCHOTTKY, RSX301L-30 TE25
	D628	23362140	DIODE, KDS160-RTK
	D640	23362140	DIODE, KDS160-RTK
	D642	23362140	DIODE, KDS160-RTK
	D650	23357778	DIODE, ZENER, MA8150-M
	D652	23357747	DIODE, ZENER, MA8062-L
	D670	23362140	DIODE, KDS160-RTK
	D671	23362140	DIODE, KDS160-RTK
	D672	23362140	DIODE, KDS160-RTK
	D673	23362140	DIODE, KDS160-RTK
	D676	23362140	DIODE, KDS160-RTK
	D677	23362140	DIODE, KDS160-RTK
	D678	23362140	DIODE, KDS160-RTK
	D679	23362140	DIODE, KDS160-RTK
	DA02	23357703	DIODE, 1SS355
	DA03	23357730	DIODE, ZENER, MA8033-L
	DA11	23357703	DIODE, 1SS355

	DA15	23357745	DIODE, ZENER, MA8056-M
	DA16	23357745	DIODE, ZENER, MA8056-M
	DA17	23357751	DIODE, ZENER, MA8068-M
	DA18	23357751	DIODE, ZENER, MA8068-M
	DE96	23357840	DIODE, ZENER, MTZJ6.2B
	DG01	23357742	DIODE, ZENER, MA8051-M
	DS03	23362140	DIODE, KDS160-RTK
	DS04	23362140	DIODE, KDS160-RTK
	DS05	23362140	DIODE, KDS160-RTK
	DS06	23362140	DIODE, KDS160-RTK
	DS10	23362140	DIODE, KDS160-RTK
	DS11	23357744	DIODE, ZENER, MA8056-L
	DV02	23362140	DIODE, KDS160-RTK
	DV03	23362140	DIODE, KDS160-RTK
	DV04	23362140	DIODE, KDS160-RTK
	DV05	23362140	DIODE, KDS160-RTK
	DV06	23357762	DIODE, ZENER, MA8091-M
	GJ41	76000445	CHIP JUMPER, 1608TYPE
	GJ42	76000445	CHIP JUMPER, 1608TYPE
	GR01	76000445	CHIP JUMPER, 1608TYPE
	GR25	76000445	CHIP JUMPER, 1608TYPE
	GR26	76000445	CHIP JUMPER, 1608TYPE
	GR27	76000445	CHIP JUMPER, 1608TYPE
	GR28	76000445	CHIP JUMPER, 1608TYPE
	GR31	76000445	CHIP JUMPER, 1608TYPE
	GR32	76000445	CHIP JUMPER, 1608TYPE
	GR33	76000445	CHIP JUMPER, 1608TYPE
	GR35	76000445	CHIP JUMPER, 1608TYPE
	GR36	76000445	CHIP JUMPER, 1608TYPE
	GR37	76000445	CHIP JUMPER, 1608TYPE
	GR603	76000445	CHIP JUMPER, 1608TYPE
	L101	23248398	COIL, CHOKE, TLN3278D
	L102	23103233	INDUCTOR, BEAD, TEM2137AD
	L103	23103233	INDUCTOR, BEAD, TEM2137AD
	L104	76000445	CHIP JUMPER, 1608TYPE
	L191	23103233	INDUCTOR, BEAD, TEM2137AD
	L414	23289043	COIL, PEAKING, TRF4100AU
	L620	23246406	COIL, CHOKE, TLN3528AF

	L621	23246406	COIL, CHOKE, TLN3528AF
	L622	23246406	COIL, CHOKE, TLN3528AF
	L623	23246406	COIL, CHOKE, TLN3528AF
	L640	76000445	CHIP JUMPER, 1608TYPE
	L655	23103233	INDUCTOR, BEAD, TEM2137AD
	LA90	23103230	BEAD INDUCTOR, TEM2134AD
	LA91	23103230	BEAD INDUCTOR, TEM2134AD
	LA92	23103230	BEAD INDUCTOR, TEM2134AD
	LA93	23103230	BEAD INDUCTOR, TEM2134AD
	LC01	23103828	BEAD INDUCTOR, TEM2121M
	LC02	23103828	BEAD INDUCTOR, TEM2121M
	LC05	23103828	BEAD INDUCTOR, TEM2121M
	LC06	23103828	BEAD INDUCTOR, TEM2121M
	LG01	23103825	BEAD INDUCTOR, TEM2118M
	LG02	23103825	BEAD INDUCTOR, TEM2118M
	LV202	23103314	COIL, FILTER, TEM2028AH
	NV11	23960136	ADHESIVE, SILICONE, TSE3843-W
	P601	23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
	PH01	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PH02	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PJ22A	75001873	CONNECTOR, B-B RECEPTACLE
	PJ80A	23023384	PLUG, TWG-P13P-A1
	PL212	23713938	CONNECTOR, B5B-PH-K-S(LF)
	PV01	75001872	PIN JACK, 10/10P ST
	PV90	23713710	SOCKET, D-SUB 15P, KRD-8622
	Q101	23205506	TRANSISTOR, 2SC4081 Q
	Q400	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
	Q401	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
	Q402	23205506	TRANSISTOR, 2SC4081 Q
	Q407	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
	Q408	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
	Q409	23205506	TRANSISTOR, 2SC4081 Q
	Q410	23205506	TRANSISTOR, 2SC4081 Q
	Q610	23009368	IC, TA2024(T)
	Q630	23009942	IC, LA4525-E
	Q660	23205506	TRANSISTOR, 2SC4081 Q
	Q661	23205506	TRANSISTOR, 2SC4081 Q
	Q662	23205325	TRANSISTOR, RN2404(F)

	Q663	23205506	TRANSISTOR, 2SC4081 Q
	Q671	23205302	TRANSISTOR, 2SC3326-B(F)
	Q672	23205302	TRANSISTOR, 2SC3326-B(F)
	Q673	23205443	TRANSISTOR, 2SA1162-Y(F)
	Q675	23205302	TRANSISTOR, 2SC3326-B(F)
	Q676	23205302	TRANSISTOR, 2SC3326-B(F)
	Q678	23205506	TRANSISTOR, 2SC4081 Q
	Q679	23205506	TRANSISTOR, 2SC4081 Q
	Q680	23205506	TRANSISTOR, 2SC4081 Q
	Q681	23205506	TRANSISTOR, 2SC4081 Q
	Q682	23205325	TRANSISTOR, RN2404(F)
	Q4100	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q4101	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q4102	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q4103	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	QA01	75001884	IC, T5CB5-6G52(F, JZ)
	QA03	75001878	IC, TC7SH126FU(TE85L, F)
	QA70	23205506	TRANSISTOR, 2SC4081 Q
	QA71	23205506	TRANSISTOR, 2SC4081 Q
	QA72	23205506	TRANSISTOR, 2SC4081 Q
	QA73	23205506	TRANSISTOR, 2SC4081 Q
	QD80	23085555	IC, PQ05RD11J00H
	QD209	23205330	TRANSISTOR, RN1403(F)
	QG01	23009672	IC, MSP3410GQI-C12-100
	QG02	23085415	IC, BD4746G
	QG03	23205329	TRANSISTOR, RN1404(F)
	QG04	23205463	TRANSISTOR, 2SC2712-Y(TE85L, F)
	QG05	23085576	IC, OP AMP, BA4558F
	QG07	23085576	IC, OP AMP, BA4558F
	QS01	23009613	IC, CD4052BNSR
	QS02	23009614	IC, CD4053BNSR
	QS03	23009614	IC, CD4053BNSR
	QS04	23205329	TRANSISTOR, RN1404(F)
	QS05	23205329	TRANSISTOR, RN1404(F)
	QS06	23205329	TRANSISTOR, RN1404(F)
	QS07	23205329	TRANSISTOR, RN1404(F)
	QS08	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
	QS09	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)

	QS10	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
	QS11	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
	QS12	23205325	TRANSISTOR, RN2404(F)
	QS13	23205302	TRANSISTOR, 2SC3326-B(F)
	QS14	23205302	TRANSISTOR, 2SC3326-B(F)
	QS15	23205325	TRANSISTOR, RN2404(F)
	QS16	23205302	TRANSISTOR, 2SC3326-B(F)
	QS17	23205302	TRANSISTOR, 2SC3326-B(F)
	QS18	23205506	TRANSISTOR, 2SC4081 Q
	QS24	23205302	TRANSISTOR, 2SC3326-B(F)
	QS25	23205302	TRANSISTOR, 2SC3326-B(F)
	QS26	23205325	TRANSISTOR, RN2404(F)
	QS27	23085576	IC, OP AMP, BA4558F
	QS30	23205302	TRANSISTOR, 2SC3326-B(F)
	QS31	23205302	TRANSISTOR, 2SC3326-B(F)
	QS32	23205302	TRANSISTOR, 2SC3326-B(F)
	QS33	23205302	TRANSISTOR, 2SC3326-B(F)
	QV16	23085823	IC, MM1508XNRE
	QV17	23085823	IC, MM1508XNRE
	QV18	23085823	IC, MM1508XNRE
	QV21	23205443	TRANSISTOR, 2SA1162-Y(F)
	QV22	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	QV23	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	QV24	23205506	TRANSISTOR, 2SC4081 Q
	QV25	23205329	TRANSISTOR, RN1404(F)
	QV26	23205329	TRANSISTOR, RN1404(F)
	QV27	23205329	TRANSISTOR, RN1404(F)
	QV30	23205507	TRANSISTOR, 2SA1576A Q
	QV31	23205329	TRANSISTOR, RN1404(F)
	QV32	23205507	TRANSISTOR, 2SA1576A Q
	QV33	23205329	TRANSISTOR, RN1404(F)
	QV51	23205506	TRANSISTOR, 2SC4081 Q
	QV52	23205506	TRANSISTOR, 2SC4081 Q
	QV53	23205506	TRANSISTOR, 2SC4081 Q
	QV54	23205506	TRANSISTOR, 2SC4081 Q
	QV55	23205506	TRANSISTOR, 2SC4081 Q
	R103	76011101	CHIP, 1/20W 100 OHM J
	R104	76011822	CHIP, 1/20W 8.2K OHM J

	R105	76011333	CHIP, 1/20W 33K OHM J
	R107	76000445	CHIP JUMPER, 1608TYPE
	R108	76000445	CHIP JUMPER, 1608TYPE
	R114	76000445	CHIP JUMPER, 1608TYPE
	R125	76011472	CHIP, 1/20W 4.7K OHM J
	R167	76011101	CHIP, 1/20W 100 OHM J
	R169	76000445	CHIP JUMPER, 1608TYPE
	R170	76011682	CHIP, 1/20W 6.8K OHM J
	R459	76011101	CHIP, 1/20W 100 OHM J
	R460	76011222	CHIP, 1/20W 2.2K OHM J
	R461	76011750	CHIP, 1/20W 75 OHM J
	R462	76011474	CHIP, 1/20W 470K OHM J
	R463	76011103	CHIP, 1/20W 10K OHM J
	R464	76011472	CHIP, 1/20W 4.7K OHM J
	R465	76011103	CHIP, 1/20W 10K OHM J
	R466	76011333	CHIP, 1/20W 33K OHM J
	R601	76554470	OXIDE METAL FILM, 2W 47 OHM J
	R605	76000606	CHIP, 1/16W 8.2K OHM F
	R609	76011273	CHIP, 1/20W 27K OHM J
	R610	76011124	CHIP, 1/20W 120K OHM J
	R611	76011102	CHIP, 1/20W 1K OHM J
	R612	76011273	CHIP, 1/20W 27K OHM J
	R613	76011124	CHIP, 1/20W 120K OHM J
	R618	76011223	CHIP, 1/20W 22K OHM J
	R619	76011473	CHIP, 1/20W 47K OHM J
	R620	76871100	CHIP, 1/8W 10 OHM J
	R623	76871100	CHIP, 1/8W 10 OHM J
	R630	76011102	CHIP, 1/20W 1K OHM J
	R631	76011224	CHIP, 1/20W 220K OHM J
	R632	76011102	CHIP, 1/20W 1K OHM J
	R633	76011104	CHIP, 1/20W 100K OHM J
	R634	76011103	CHIP, 1/20W 10K OHM J
	R635	76011102	CHIP, 1/20W 1K OHM J
	R636	76011473	CHIP, 1/20W 47K OHM J
	R640	76011103	CHIP, 1/20W 10K OHM J
	R641	76011103	CHIP, 1/20W 10K OHM J
	R642	76011102	CHIP, 1/20W 1K OHM J
	R645	76011103	CHIP, 1/20W 10K OHM J

	R646	76011103	CHIP, 1/20W 10K OHM J
	R666	76011563	CHIP, 1/20W 56K OHM J
	R670	76011472	CHIP, 1/20W 4.7K OHM J
	R671	76011182	CHIP, 1/20W 1.8K OHM J
	R672	76011472	CHIP, 1/20W 4.7K OHM J
	R673	76011182	CHIP, 1/20W 1.8K OHM J
	R674	76011563	CHIP, 1/20W 56K OHM J
	R676	76011473	CHIP, 1/20W 47K OHM J
	R677	76011473	CHIP, 1/20W 47K OHM J
	R678	76011222	CHIP, 1/20W 2.2K OHM J
	R679	76011222	CHIP, 1/20W 2.2K OHM J
	R682	76011104	CHIP, 1/20W 100K OHM J
	R683	76011223	CHIP, 1/20W 22K OHM J
	R684	76011104	CHIP, 1/20W 100K OHM J
	R685	76011222	CHIP, 1/20W 2.2K OHM J
	R686	76011102	CHIP, 1/20W 1K OHM J
	R687	76011473	CHIP, 1/20W 47K OHM J
	R688	76011473	CHIP, 1/20W 47K OHM J
	R689	76011102	CHIP, 1/20W 1K OHM J
	R690	76011473	CHIP, 1/20W 47K OHM J
	R691	76011103	CHIP, 1/20W 10K OHM J
	R692	76011223	CHIP, 1/20W 22K OHM J
	R4073	76011101	CHIP, 1/20W 100 OHM J
	R4074	76011222	CHIP, 1/20W 2.2K OHM J
	R4075	76011750	CHIP, 1/20W 75 OHM J
	R4076	76011474	CHIP, 1/20W 470K OHM J
	R4077	76011103	CHIP, 1/20W 10K OHM J
	R4078	76011472	CHIP, 1/20W 4.7K OHM J
	R4079	76011103	CHIP, 1/20W 10K OHM J
	R4080	76011333	CHIP, 1/20W 33K OHM J
	R4082	76011223	CHIP, 1/20W 22K OHM J
	R4083	76011473	CHIP, 1/20W 47K OHM J
	R4084	76011473	CHIP, 1/20W 47K OHM J
	R4085	76011473	CHIP, 1/20W 47K OHM J
	R4100	76011102	CHIP, 1/20W 1K OHM J
	R4101	76011681	CHIP, 1/20W 680 OHM J
	R4102	76011471	CHIP, 1/20W 470 OHM J
	R4103	76011681	CHIP, 1/20W 680 OHM J

	R4104	76011102	CHIP, 1/20W 1K OHM J
	R4105	76011102	CHIP, 1/20W 1K OHM J
	R4106	76011681	CHIP, 1/20W 680 OHM J
	R4107	76011471	CHIP, 1/20W 470 OHM J
	R4108	76011681	CHIP, 1/20W 680 OHM J
	R4109	76011102	CHIP, 1/20W 1K OHM J
	R6601	76011223	CHIP, 1/20W 22K OHM J
	R6602	76011103	CHIP, 1/20W 10K OHM J
	R6603	76011104	CHIP, 1/20W 100K OHM J
	RA01	76011331	CHIP, 1/20W 330 OHM J
	RA02	76011105	CHIP, 1/20W 1M OHM J
	RA09	76011102	CHIP, 1/20W 1K OHM J
	RA10	76011102	CHIP, 1/20W 1K OHM J
	RA11	76011101	CHIP, 1/20W 100 OHM J
	RA12	76011101	CHIP, 1/20W 100 OHM J
	RA13	76011101	CHIP, 1/20W 100 OHM J
	RA14	76011101	CHIP, 1/20W 100 OHM J
	RA15	76011102	CHIP, 1/20W 1K OHM J
	RA17	76011101	CHIP, 1/20W 100 OHM J
	RA20	76011102	CHIP, 1/20W 1K OHM J
	RA21	76011102	CHIP, 1/20W 1K OHM J
	RA22	76011102	CHIP, 1/20W 1K OHM J
	RA23	76011102	CHIP, 1/20W 1K OHM J
	RA24	76011102	CHIP, 1/20W 1K OHM J
	RA26	76011102	CHIP, 1/20W 1K OHM J
	RA28	76011101	CHIP, 1/20W 100 OHM J
	RA29	76011101	CHIP, 1/20W 100 OHM J
	RA30	76011101	CHIP, 1/20W 100 OHM J
	RA31	76011101	CHIP, 1/20W 100 OHM J
	RA32	76011103	CHIP, 1/20W 10K OHM J
	RA33	76011101	CHIP, 1/20W 100 OHM J
	RA34	76011101	CHIP, 1/20W 100 OHM J
	RA35	76011101	CHIP, 1/20W 100 OHM J
	RA36	76011101	CHIP, 1/20W 100 OHM J
	RA39	76011101	CHIP, 1/20W 100 OHM J
	RA44	76011101	CHIP, 1/20W 100 OHM J
	RA45	76011101	CHIP, 1/20W 100 OHM J
	RA49	76011102	CHIP, 1/20W 1K OHM J

	RA50	76011103	CHIP, 1/20W 10K OHM J
	RA52	76011101	CHIP, 1/20W 100 OHM J
	RA53	76011101	CHIP, 1/20W 100 OHM J
	RA55	76011471	CHIP, 1/20W 470 OHM J
	RA56	76011331	CHIP, 1/20W 330 OHM J
	RA57	76011101	CHIP, 1/20W 100 OHM J
	RA58	76011101	CHIP, 1/20W 100 OHM J
	RA59	76011101	CHIP, 1/20W 100 OHM J
	RA60	76011101	CHIP, 1/20W 100 OHM J
	RA61	76011101	CHIP, 1/20W 100 OHM J
	RA62	76011101	CHIP, 1/20W 100 OHM J
	RA63	76011101	CHIP, 1/20W 100 OHM J
	RA64	76011101	CHIP, 1/20W 100 OHM J
	RA66	76011473	CHIP, 1/20W 47K OHM J
	RA70	76011471	CHIP, 1/20W 470 OHM J
	RA81	76011102	CHIP, 1/20W 1K OHM J
	RA82	76011473	CHIP, 1/20W 47K OHM J
	RA83	76011102	CHIP, 1/20W 1K OHM J
	RA100	76011103	CHIP, 1/20W 10K OHM J
	RA101	76011103	CHIP, 1/20W 10K OHM J
	RA102	76011103	CHIP, 1/20W 10K OHM J
	RA103	76011101	CHIP, 1/20W 100 OHM J
	RA104	76011101	CHIP, 1/20W 100 OHM J
	RA105	76011101	CHIP, 1/20W 100 OHM J
	RA106	76011101	CHIP, 1/20W 100 OHM J
	RA108	76011103	CHIP, 1/20W 10K OHM J
	RA112	76011103	CHIP, 1/20W 10K OHM J
	RA113	76011103	CHIP, 1/20W 10K OHM J
	RA114	76011473	CHIP, 1/20W 47K OHM J
	RA116	76011103	CHIP, 1/20W 10K OHM J
	RA117	76011103	CHIP, 1/20W 10K OHM J
	RA118	76011103	CHIP, 1/20W 10K OHM J
	RA120	76011102	CHIP, 1/20W 1K OHM J
	RA126	76011101	CHIP, 1/20W 100 OHM J
	RB33	76011103	CHIP, 1/20W 10K OHM J
	RB57	76011103	CHIP, 1/20W 10K OHM J
	RB58	76011103	CHIP, 1/20W 10K OHM J
	RB59	76011103	CHIP, 1/20W 10K OHM J

	RB60	76011103	CHIP, 1/20W 10K OHM J
	RB61	76011103	CHIP, 1/20W 10K OHM J
	RB62	76011103	CHIP, 1/20W 10K OHM J
	RC01	76011102	CHIP, 1/20W 1K OHM J
	RC02	76011102	CHIP, 1/20W 1K OHM J
	RC03	76011102	CHIP, 1/20W 1K OHM J
	RC04	76011102	CHIP, 1/20W 1K OHM J
	RC24	76011330	CHIP, 1/20W 33 OHM J
	RD254	76011473	CHIP, 1/20W 47K OHM J
	RD255	76011101	CHIP, 1/20W 100 OHM J
	RG01	76011101	CHIP, 1/20W 100 OHM J
	RG02	76011101	CHIP, 1/20W 100 OHM J
	RG03	76011101	CHIP, 1/20W 100 OHM J
	RG04	76011472	CHIP, 1/20W 4.7K OHM J
	RG06	76011101	CHIP, 1/20W 100 OHM J
	RG07	76011101	CHIP, 1/20W 100 OHM J
	RG09	76011101	CHIP, 1/20W 100 OHM J
	RG11	76011101	CHIP, 1/20W 100 OHM J
	RG12	76011101	CHIP, 1/20W 100 OHM J
	RG13	76011472	CHIP, 1/20W 4.7K OHM J
	RG14	76011472	CHIP, 1/20W 4.7K OHM J
	RG15	76011183	CHIP, 1/20W 18K OHM J
	RG16	76011183	CHIP, 1/20W 18K OHM J
	RG17	76011473	CHIP, 1/20W 47K OHM J
	RG18	76011473	CHIP, 1/20W 47K OHM J
	RG19	76011332	CHIP, 1/20W 3.3K OHM J
	RG23	76011332	CHIP, 1/20W 3.3K OHM J
	RG24	76011683	CHIP, 1/20W 68K OHM J
	RG25	76011222	CHIP, 1/20W 2.2K OHM J
	RG26	76011101	CHIP, 1/20W 100 OHM J
	RG27	76011101	CHIP, 1/20W 100 OHM J
	RG28	76011101	CHIP, 1/20W 100 OHM J
	RG29	76011101	CHIP, 1/20W 100 OHM J
	RG30	76011101	CHIP, 1/20W 100 OHM J
	RG31	76011101	CHIP, 1/20W 100 OHM J
	RG32	76011101	CHIP, 1/20W 100 OHM J
	RG33	76011101	CHIP, 1/20W 100 OHM J
	RG34	76011102	CHIP, 1/20W 1K OHM J

	RG35	76011101	CHIP, 1/20W 100 OHM J
	RG37	76011101	CHIP, 1/20W 100 OHM J
	RG38	76011101	CHIP, 1/20W 100 OHM J
	RG40	76011183	CHIP, 1/20W 18K OHM J
	RG41	76011183	CHIP, 1/20W 18K OHM J
	RG42	76011472	CHIP, 1/20W 4.7K OHM J
	RG43	76011472	CHIP, 1/20W 4.7K OHM J
	RG44	76011473	CHIP, 1/20W 47K OHM J
	RG45	76011473	CHIP, 1/20W 47K OHM J
	RG46	76011101	CHIP, 1/20W 100 OHM J
	RG47	76011101	CHIP, 1/20W 100 OHM J
	RG010	76011101	CHIP, 1/20W 100 OHM J
	RR01	76871750	CHIP, 1/8W 75 OHM J
	RR02	76871750	CHIP, 1/8W 75 OHM J
	RR03	76871750	CHIP, 1/8W 75 OHM J
	RR04	76011330	CHIP, 1/20W 33 OHM J
	RR05	76011330	CHIP, 1/20W 33 OHM J
	RR06	76011330	CHIP, 1/20W 33 OHM J
	RR50	76872750	CHIP, 1/16W 75 OHM J
	RS01	76011473	CHIP, 1/20W 47K OHM J
	RS02	76011473	CHIP, 1/20W 47K OHM J
	RS03	76011473	CHIP, 1/20W 47K OHM J
	RS04	76011101	CHIP, 1/20W 100 OHM J
	RS05	76011101	CHIP, 1/20W 100 OHM J
	RS06	76011101	CHIP, 1/20W 100 OHM J
	RS07	76011103	CHIP, 1/20W 10K OHM J
	RS08	76011103	CHIP, 1/20W 10K OHM J
	RS09	76011473	CHIP, 1/20W 47K OHM J
	RS10	76011473	CHIP, 1/20W 47K OHM J
	RS11	76011473	CHIP, 1/20W 47K OHM J
	RS12	76011101	CHIP, 1/20W 100 OHM J
	RS13	76011101	CHIP, 1/20W 100 OHM J
	RS14	76011101	CHIP, 1/20W 100 OHM J
	RS15	76011473	CHIP, 1/20W 47K OHM J
	RS16	76011473	CHIP, 1/20W 47K OHM J
	RS17	76011473	CHIP, 1/20W 47K OHM J
	RS18	76011473	CHIP, 1/20W 47K OHM J
	RS19	76011101	CHIP, 1/20W 100 OHM J

	RS20	76011101	CHIP, 1/20W 100 OHM J
	RS21	76011103	CHIP, 1/20W 10K OHM J
	RS22	76011103	CHIP, 1/20W 10K OHM J
	RS23	76011473	CHIP, 1/20W 47K OHM J
	RS24	76011473	CHIP, 1/20W 47K OHM J
	RS25	76011101	CHIP, 1/20W 100 OHM J
	RS26	76011101	CHIP, 1/20W 100 OHM J
	RS27	76011473	CHIP, 1/20W 47K OHM J
	RS28	76011393	CHIP, 1/20W 39K OHM J
	RS29	76011563	CHIP, 1/20W 56K OHM J
	RS30	76011222	CHIP, 1/20W 2.2K OHM J
	RS31	76011393	CHIP, 1/20W 39K OHM J
	RS32	76011563	CHIP, 1/20W 56K OHM J
	RS33	76011222	CHIP, 1/20W 2.2K OHM J
	RS34	76011101	CHIP, 1/20W 100 OHM J
	RS35	76011101	CHIP, 1/20W 100 OHM J
	RS36	76011473	CHIP, 1/20W 47K OHM J
	RS37	76011473	CHIP, 1/20W 47K OHM J
	RS38	76011101	CHIP, 1/20W 100 OHM J
	RS39	76011101	CHIP, 1/20W 100 OHM J
	RS40	76011103	CHIP, 1/20W 10K OHM J
	RS41	76011103	CHIP, 1/20W 10K OHM J
	RS42	76011473	CHIP, 1/20W 47K OHM J
	RS43	76011473	CHIP, 1/20W 47K OHM J
	RS44	76011101	CHIP, 1/20W 100 OHM J
	RS45	76011101	CHIP, 1/20W 100 OHM J
	RS46	76011473	CHIP, 1/20W 47K OHM J
	RS47	76011393	CHIP, 1/20W 39K OHM J
	RS48	76011563	CHIP, 1/20W 56K OHM J
	RS49	76011222	CHIP, 1/20W 2.2K OHM J
	RS50	76011101	CHIP, 1/20W 100 OHM J
	RS51	76011393	CHIP, 1/20W 39K OHM J
	RS52	76011563	CHIP, 1/20W 56K OHM J
	RS53	76011101	CHIP, 1/20W 100 OHM J
	RS54	76011222	CHIP, 1/20W 2.2K OHM J
	RS56	76011681	CHIP, 1/20W 680 OHM J
	RS57	76011681	CHIP, 1/20W 680 OHM J
	RS58	76011103	CHIP, 1/20W 10K OHM J

	RS60	76011473	CHIP, 1/20W 47K OHM J
	RS61	76011473	CHIP, 1/20W 47K OHM J
	RS62	76011104	CHIP, 1/20W 100K OHM J
	RS63	76011104	CHIP, 1/20W 100K OHM J
	RS64	76011102	CHIP, 1/20W 1K OHM J
	RS65	76011102	CHIP, 1/20W 1K OHM J
	RS66	76011104	CHIP, 1/20W 100K OHM J
	RS67	76011104	CHIP, 1/20W 100K OHM J
	RS68	76011473	CHIP, 1/20W 47K OHM J
	RS69	76011473	CHIP, 1/20W 47K OHM J
	RS71	76011103	CHIP, 1/20W 10K OHM J
	RS72	76011103	CHIP, 1/20W 10K OHM J
	RS73	76011681	CHIP, 1/20W 680 OHM J
	RS74	76011681	CHIP, 1/20W 680 OHM J
	RS75	76011473	CHIP, 1/20W 47K OHM J
	RS76	76011473	CHIP, 1/20W 47K OHM J
	RS77	76011681	CHIP, 1/20W 680 OHM J
	RS78	76011681	CHIP, 1/20W 680 OHM J
	RS79	76011473	CHIP, 1/20W 47K OHM J
	RS80	76011473	CHIP, 1/20W 47K OHM J
	RS81	76011104	CHIP, 1/20W 100K OHM J
	RS82	76011104	CHIP, 1/20W 100K OHM J
	RS83	76011473	CHIP, 1/20W 47K OHM J
	RS84	76011473	CHIP, 1/20W 47K OHM J
	RS85	76011102	CHIP, 1/20W 1K OHM J
	RS86	76011102	CHIP, 1/20W 1K OHM J
	RS88	76011103	CHIP, 1/20W 10K OHM J
	RS89	76011822	CHIP, 1/20W 8.2K OHM J
	RS90	76011822	CHIP, 1/20W 8.2K OHM J
	RS91	76011123	CHIP, 1/20W 12K OHM J
	RS92	76011123	CHIP, 1/20W 12K OHM J
	RS93	76011101	CHIP, 1/20W 100 OHM J
	RS94	76011101	CHIP, 1/20W 100 OHM J
	RS95	76011222	CHIP, 1/20W 2.2K OHM J
	RS96	76011473	CHIP, 1/20W 47K OHM J
	RS97	76011473	CHIP, 1/20W 47K OHM J
	RV01	76872750	CHIP, 1/16W 75 OHM J
	RV02	76872750	CHIP, 1/16W 75 OHM J

	RV03	76872151	CHIP, 1/16W 150 OHM J
	RV04	76872151	CHIP, 1/16W 150 OHM J
	RV05	76872750	CHIP, 1/16W 75 OHM J
	RV06	76872750	CHIP, 1/16W 75 OHM J
	RV11	76872750	CHIP, 1/16W 75 OHM J
	RV13	76872750	CHIP, 1/16W 75 OHM J
	RV25	76011750	CHIP, 1/20W 75 OHM J
	RV26	76011750	CHIP, 1/20W 75 OHM J
	RV27	76011750	CHIP, 1/20W 75 OHM J
	RV51	76011101	CHIP, 1/20W 100 OHM J
	RV52	76011391	CHIP, 1/20W 390 OHM J
	RV54	76011473	CHIP, 1/20W 47K OHM J
	RV55	76011473	CHIP, 1/20W 47K OHM J
	RV56	76011473	CHIP, 1/20W 47K OHM J
	RV57	76011101	CHIP, 1/20W 100 OHM J
	RV58	76011391	CHIP, 1/20W 390 OHM J
	RV59	76011473	CHIP, 1/20W 47K OHM J
	RV60	76011473	CHIP, 1/20W 47K OHM J
	RV61	76011101	CHIP, 1/20W 100 OHM J
	RV63	76011473	CHIP, 1/20W 47K OHM J
	RV64	76011391	CHIP, 1/20W 390 OHM J
	RV65	76011473	CHIP, 1/20W 47K OHM J
	RV66	76011473	CHIP, 1/20W 47K OHM J
	RV67	76011101	CHIP, 1/20W 100 OHM J
	RV69	76011391	CHIP, 1/20W 390 OHM J
	RV76	76011473	CHIP, 1/20W 47K OHM J
	RV78	76011101	CHIP, 1/20W 100 OHM J
	RV79	76011391	CHIP, 1/20W 390 OHM J
	RV80	76011473	CHIP, 1/20W 47K OHM J
	RV92	76011103	CHIP, 1/20W 10K OHM J
	RV93	76011682	CHIP, 1/20W 6.8K OHM J
	RV94	76011103	CHIP, 1/20W 10K OHM J
	RV95	76011682	CHIP, 1/20W 6.8K OHM J
	RV96	76011102	CHIP, 1/20W 1K OHM J
	RV97	76011102	CHIP, 1/20W 1K OHM J
	RV215	76011750	CHIP, 1/20W 75 OHM J
	RV216	76011103	CHIP, 1/20W 10K OHM J
	RV225	76011750	CHIP, 1/20W 75 OHM J

	RV226	76011103	CHIP, 1/20W 10K OHM J
	RV227	76011101	CHIP, 1/20W 100 OHM J
	RV228	76011472	CHIP, 1/20W 4.7K OHM J
	RV235	76011750	CHIP, 1/20W 75 OHM J
	RV236	76011103	CHIP, 1/20W 10K OHM J
	RV237	76011101	CHIP, 1/20W 100 OHM J
	RV238	76011472	CHIP, 1/20W 4.7K OHM J
	RV251	76011101	CHIP, 1/20W 100 OHM J
	RV252	76011102	CHIP, 1/20W 1K OHM J
	RV253	76011392	CHIP, 1/20W 3.9K OHM J
	RV254	76011432	CHIP, 1/20W 4.3K OHM J
	RV255	76011102	CHIP, 1/20W 1K OHM J
	RV256	76011152	CHIP, 1/20W 1.5K OHM J
	RV257	76011102	CHIP, 1/20W 1K OHM J
	RV258	76011101	CHIP, 1/20W 100 OHM J
	RV259	76011222	CHIP, 1/20W 2.2K OHM J
	RV260	76011101	CHIP, 1/20W 100 OHM J
	RX51	76000445	CHIP JUMPER, 1608TYPE
	RX52	76000445	CHIP JUMPER, 1608TYPE
	RX53	76000445	CHIP JUMPER, 1608TYPE
	XA01	23153586	CERAMIC RESONATOR, 8.0MHZ 40OHM, TCR1085AM
	XG01	75001870	RESONATOR, 18.432MHZ

U02B FRONT AV (PE0029A2)

	Location	Parts No.	Description
*	U02B	75002061	PC BOARD ASSY, PE0029A2, FRONT AV
	C604	76109103	CERAMIC CHIP, 50V B 0.01UF K
	C605	76109103	CERAMIC CHIP, 50V B 0.01UF K
	CC11	76109102	CERAMIC CHIP, 50V B 1000PF K
	CC12	76109102	CERAMIC CHIP, 50V B 1000PF K
	CV122	76105101	CERAMIC CHIP, 50V CH 100PF J
	CY650	76109103	CERAMIC CHIP, 50V B 0.01UF K
	DV120	23357745	DIODE, ZENER, MA8056-M
	P661	23365444	EARPHONE JACK, D3.5
	PV60	23365275	PHONO JACK, 3P V-L-R, YKC21
	R696	76871221	CHIP, 1/8W 220 OHM J
	R697	76871221	CHIP, 1/8W 220 OHM J
	R698	76871221	CHIP, 1/8W 220 OHM J
	R699	76871221	CHIP, 1/8W 220 OHM J
	RC11	76011821	CHIP, 1/20W 820 OHM J
	RC12	76011821	CHIP, 1/20W 820 OHM J
	RV10	76000445	CHIP JUMPER, 1608TYPE
	RV123	76872750	CHIP, 1/16W 75 OHM J
	RV129	76011101	CHIP, 1/20W 100 OHM J

U02C LED (PE0029A3)

	Location	Parts No.	Description
*	U02C	75002062	PC BOARD ASSY, PE0029A3, LED
	CB02	76202221	ELECTROLYTIC, 10V 220UF M
	CB03	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CB04	76100104	CERAMIC CHIP, 25V F 0.1UF Z
	CB05	76202221	ELECTROLYTIC, 10V 220UF M
	DB01	23358606	DIODE, LED, SLR-56VC3FPQ
	DB04	23358605	DIODE, LED, SLR-56MC3FPQR
	DB20	23357406	DIODE, ZENER, UDZS5.6B
	DB22	23357703	DIODE, 1SS355
	DB23	23357703	DIODE, 1SS355
	KB01	75001951	REMOCON PHOTO RECIEVER, GP1UE261RK0F
	PA01B	23713949	CONNECTOR, S7B-PH-K-S(LF)
	RB08	76011470	CHIP, 1/20W 47 OHM J
	RB09	76011470	CHIP, 1/20W 47 OHM J

U02E 7-KEY (PE0029A5)

	Location	Parts No.	Description
*	U02E	75002064	PC BOARD ASSY, PE0029A5, 7-KEY
	DA01A	23362042	DIODE, ZENER, UDZS6.8B
	DA06A	23362042	DIODE, ZENER, UDZS6.8B
	DA07A	23362042	DIODE, ZENER, UDZS6.8B
	PJ42A	23713948	CONNECTOR, S6B-PH-K-S(LF)
	RA71A	76011683	CHIP, 1/20W 68K OHM J
	RA72A	76011223	CHIP, 1/20W 22K OHM J
	RA73A	76011103	CHIP, 1/20W 10K OHM J
	RA74A	76000445	CHIP JUMPER, 1608TYPE
	RA77A	76011103	CHIP, 1/20W 10K OHM J
	RA78A	76000445	CHIP JUMPER, 1608TYPE
	RA79A	76000445	CHIP JUMPER, 1608TYPE
	SA01A	23344505	SWITCH, PUSH 1C1P
	SA02A	23344505	SWITCH, PUSH 1C1P
	SA03A	23344505	SWITCH, PUSH 1C1P
	SA04A	23344505	SWITCH, PUSH 1C1P
	SA05A	23344505	SWITCH, PUSH 1C1P
	SA06A	23344505	SWITCH, PUSH 1C1P
	SA07A	23344505	SWITCH, PUSH 1C1P

U02F DB_DOWNLOAD (PE0029A6)

	Location	Parts No.	Description
*	U02F	75002065	PC BOARD ASSY, PE0029A6, DB_DOWNLOAD
	GR60	76000445	CHIP JUMPER, 1608TYPE
	PL05A	23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
	PL05B	23713776	PLUG, 3P 2.5MM W, S3B-EH

U03A SIGNAL (PE0081C1)

	Location	Parts No.	Description
*	U03A	75001990	PC BOARD ASSY, PE0081C1, SIGNAL
	C301	V01GD0000896	CHIP RESISTOR (1608)
	C302	V01GD0000896	CHIP RESISTOR (1608)
	C303	V01GD0000896	CHIP RESISTOR (1608)
	C304	V01GD0000896	CHIP RESISTOR (1608)
	C305	V01GD0000896	CHIP RESISTOR (1608)
	C306	V01GD0000896	CHIP RESISTOR (1608)
	C307	V01GD0000896	CHIP RESISTOR (1608)
	C308	V01GD0000896	CHIP RESISTOR (1608)
	C309	V01GD0000896	CHIP RESISTOR (1608)
	C310	V01GD0000896	CHIP RESISTOR (1608)
	C311	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C312	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C313	V03GD0000559	CHIP CERAMIC CAPACITOR (1608)
	C320	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C321	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C322	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C323	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C324	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C325	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C326	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C327	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C330	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C331	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C332	V03GD0000643	CHIP CERAMIC CAPACITOR (2012)
	C334	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C350	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C351	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C355	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C356	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C357	V03GD0000714	CHIP CERAMIC CAPACITOR (1608)
	C360	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C361	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C362	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C370	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C371	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)

	C372	V03GD0000578	CHIP CERAMIC CAPACITOR (1608)
	C373	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C374	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C375	V03GD0000578	CHIP CERAMIC CAPACITOR (1608)
	C376	V03GD0000541	CHIP CERAMIC CAPACITOR (1608)
	C377	V03GD0000541	CHIP CERAMIC CAPACITOR (1608)
	C378	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C379	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C380	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C381	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C401	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C404	V03GD0000708	CHIP CERAMIC CAPACITOR (1608)
	C406	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C408	V03GD0000708	CHIP CERAMIC CAPACITOR (1608)
	C410	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C411	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C427	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C428	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C429	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C431	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C432	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C433	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C434	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C435	V03GD0000591	CHIP CERAMIC CAPACITOR (1608)
	C436	V03GD0000574	CHIP CERAMIC CAPACITOR (1608)
	C437	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C438	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C439	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C440	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C441	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C451	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C453	V03GD0000574	CHIP CERAMIC CAPACITOR (1608)
	C454	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C455	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C458	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C459	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C460	V03GD0000543	CHIP CERAMIC CAPACITOR (1608)
	C471	V03GD0000546	CHIP CERAMIC CAPACITOR (1608)

	C473	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C474	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C475	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C476	V03GD0000714	CHIP CERAMIC CAPACITOR (1608)
	C486	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C490	V03A000003Q0	CAPACITOR
	C491	V03A000003Q0	CAPACITOR
	C492	V03A000003Q0	CAPACITOR
	C493	V03A000003Q0	CAPACITOR
	C494	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	C495	V03GD0000585	CHIP CERAMIC CAPACITOR (1608)
	C496	V03GD0000585	CHIP CERAMIC CAPACITOR (1608)
	C773	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C774	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C775	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C776	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C783	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C784	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C785	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C786	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C787	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C872	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C873	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C874	V03A000003Q0	CAPACITOR
	C875	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C878	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	C879	V03GD0000560	CHIP CERAMIC CAPACITOR (1608)
	C912	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C913	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C914	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C915	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C919	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)

	C921	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C924	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C944	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C945	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C946	V03A000003Q0	CAPACITOR
	C947	V03A000003Q0	CAPACITOR
	C948	V03A000003Q0	CAPACITOR
	C949	V03A000003Q0	CAPACITOR
	C950	V03A000003Q0	CAPACITOR
	C951	V03GD0001192	CHIP CERAMIC CAPACITOR (1005)
	C953	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C2000	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2001	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2002	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2003	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C2007	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2008	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C2010	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C2014	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C2017	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2018	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2019	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3001	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C3002	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)
	C3004	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)

	C3200	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3400	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3401	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3402	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3404	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3406	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C3407	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3408	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3409	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3410	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3412	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C3414	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
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	C3420	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3421	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C3422	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3423	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
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	C3425	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3427	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3428	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C3430	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C3431	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C3432	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C3433	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3434	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3435	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C3438	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C3439	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3440	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C3441	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C3442	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C3443	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)

	C3444	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C3446	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C3720	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C3721	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C3740	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C7900	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7901	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7902	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7903	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7904	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7906	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7911	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7912	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7913	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7914	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7915	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7916	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7917	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7918	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7919	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7931	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)

	C7932	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7933	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7942	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7944	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7945	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7946	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7947	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7948	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7949	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7950	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7951	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7952	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
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	C7960	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7961	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7962	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7963	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7964	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7966	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7967	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7968	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7969	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7970	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)

	C7971	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7974	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7975	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7979	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7980	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7981	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C7982	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7983	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7984	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7987	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9055	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9056	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9057	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9058	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9059	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9064	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9065	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9066	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
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	C9069	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9070	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9071	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9072	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9074	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9202	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9204	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9205	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C9219	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9220	V03GD0001128	CHIP CERAMIC CAPACITOR (1608)
	C9223	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9226	V03A000003Q0	CAPACITOR

	C9227	V03A000003Q0	CAPACITOR
	C9228	V03A000003Q0	CAPACITOR
	C9229	V03A000003Q0	CAPACITOR
	C9230	V03A000003Q0	CAPACITOR
	C9231	V03A000003Q0	CAPACITOR
	CN320	75001875	CONNECTOR HDMI 1.0MM 19P
	CN321	75001875	CONNECTOR HDMI 1.0MM 19P
	CN322	V22GD0001650	0.5MM PITCH W TO B CONNECTOR
	D201	V42GD0000208	ZENER DIODE
	D202	V42GD0000208	ZENER DIODE
	D203	V42GD0000208	ZENER DIODE
	D204	V42GD0000208	ZENER DIODE
	D205	V42GD0000208	ZENER DIODE
	D206	V42GD0000208	ZENER DIODE
	D207	V42GD0000208	ZENER DIODE
	D208	V42GD0000208	ZENER DIODE
	D209	V42GD0000208	ZENER DIODE
	D210	V42GD0000208	ZENER DIODE
	D211	V42GD0000208	ZENER DIODE
	D212	V42GD0000208	ZENER DIODE
	D213	V42GD0000208	ZENER DIODE
	D214	V42GD0000208	ZENER DIODE
	D215	V42GD0000208	ZENER DIODE
	D216	V42GD0000208	ZENER DIODE
	D224	V42GD0000208	ZENER DIODE
	D225	V42GD0000208	ZENER DIODE
	D361	V42GD0000219	DIODE
	D362	V42GD0000219	DIODE
	D370	V42GD0000219	DIODE
	D371	V42GD0000219	DIODE
	D372	V42GD0000219	DIODE
	D382	V42GD0000219	DIODE
	D400	V42GD0000219	DIODE
	D401	V42GD0000219	DIODE
	D402	V42GD0000219	DIODE
	D403	V42GD0000257	SCHOTTKY BARRIER DIODE
	D404	V42GD0000257	SCHOTTKY BARRIER DIODE
	D500	V42GD0000245	SCHOTTKY BARRIER DIODE

	D888	V42GD0000199	ZENER DIODE
	D890	V42GD0000219	DIODE
	D891	V42GD0000219	DIODE
	D892	23362043	DIODE, ZENER, UDZS8.2B
	E100	VF2A00007600	BRACKET SHIELD SIG BOTTOM
	E101	VF2A00007500	BRACKET SHIELD SIG TOP ASM
	E105	23717215	SCREW, PP3X8+SW+W ECO
	E106	23717215	SCREW, PP3X8+SW+W ECO
	E107	23717215	SCREW, PP3X8+SW+W ECO
	E110	23355230	SUBMATERIAL , 20*20*2
	FL201	V05A000010Q0	COIL
	FL301	V05A000002Q0	COIL
	FL302	V05A000002Q0	COIL
	FL303	V05A000002Q0	COIL
	FL304	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL305	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	FL306	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	FL310	V01GD0001702	CHIP JUMPER 1608TYPE
	FL320	V13GD0000246	CHIP BEADS INDUCTOR
	FL326	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL340	V13GD0000246	CHIP BEADS INDUCTOR
	FL413	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL414	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL415	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL416	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL417	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL418	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL419	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL420	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL421	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL422	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL423	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL424	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL425	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL426	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL427	V13GD0000249	CHIP BEADS INDUCTOR (2012)
	FL428	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL432	V13GD0000343	CHIP BEADS INDUCTOR (1608)

	FL433	V13GD0000247	CHIP BEADS INDUCTOR
	FL434	V13GD0000247	CHIP BEADS INDUCTOR
	FL435	V13GD0000247	CHIP BEADS INDUCTOR
	FL436	V13GD0000246	CHIP BEADS INDUCTOR
	FL437	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL801	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	FL870	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	FL920	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL921	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL922	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL923	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL924	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL930	V13GD0000247	CHIP BEADS INDUCTOR
	FL931	V13GD0000246	CHIP BEADS INDUCTOR
	FL932	V13GD0000247	CHIP BEADS INDUCTOR
	FL933	V13GD0000246	CHIP BEADS INDUCTOR
	FL934	V13GD0000246	CHIP BEADS INDUCTOR
	FL935	V13GD0000246	CHIP BEADS INDUCTOR
	IC300	V46GD0001272	HDMI RECEIVER LSI
	IC310	V45GD0000549	EXCLUSIVE OR GATE
	IC333	V45GD0000444	INVERTER
	IC340	V47GD0001107	LOW DROPOUT VOLTAGE REGULATOR
	IC350	V47GD0000760	HIGH-PERFORMANCE PHASE-LOCKED
	IC360	V47GD0000571	AUDIO D/A CONVERTER
	IC371	V47GD0000998	DUAL AUDIO OP AMP
	IC380	V46GD0001463	4K(512X8)BIT EEPROM
	IC402	75001964	VOLTAGE REGULATOR, PQ033DNA1ZPH
	IC403	V47GD0001109	BUCK CONVERTER
	IC404	V46GD0001475	16M(1MX16)BIT FLASH MEMORY
	IC410	V47GD0000702	LOW POWER-LOSS REGURATOR
	IC411	V47GD0000716	VOLTAGE REGULATOR
	IC413	V46GD0001233	128K(16KX8)BIT EEPROM
	IC420	V47GD0001110	STEP-DOWN CONVERTER
	IC700	75001880	IC, FLI8538-LF-AB
	IC701	V46GD0001210	128(8X16)MBIT DDR SDRAM
	IC702	V46GD0001210	128(8X16)MBIT DDR SDRAM
	IC705	V45GD0000483	DUAL BILATERAL SWITCH
	IC872	V47GD0001031	DC/DC CONVERTER

	IC873	V47GD0000938	CMOS RESET IC
	IC921	V45GD0000443	EXCLUSIVE OR GATE
	IC923	V45GD0000462	2 INPUT AND GATE
	IC924	V45GD0000462	2 INPUT AND GATE
	L300	V13GD0000256	CHIP BEADS INDUCTOR
	L302	V13GD0000256	CHIP BEADS INDUCTOR
	L340	V05GD0000502	CHIP INDUCTOR(3225)
	L341	V13GD0000256	CHIP BEADS INDUCTOR
	L342	V13GD0000256	CHIP BEADS INDUCTOR
	L344	V05GD0000502	CHIP INDUCTOR(3225)
	L350	V05GD0000502	CHIP INDUCTOR(3225)
	L355	V05GD0000502	CHIP INDUCTOR(3225)
	L430	V05GD0000598	CHIP POWER INDUCTOR
	L431	V05GD0000599	CHIP POWER INDUCTOR
	L912	V13GD0000264	CHIP BEADS INDUCTOR
	L916	V13GD0000256	CHIP BEADS INDUCTOR
	L917	V13GD0000264	CHIP BEADS INDUCTOR
	L920	V13GD0000256	CHIP BEADS INDUCTOR
	L921	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L922	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L923	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L924	V13GD0000256	CHIP BEADS INDUCTOR
	L925	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L926	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L927	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L930	V13GD0000343	CHIP BEADS INDUCTOR (1608)
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	L935	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L936	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L937	V13GD0000264	CHIP BEADS INDUCTOR
	L938	V13GD0000256	CHIP BEADS INDUCTOR
	L943	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	L9031	V13GD0000256	CHIP BEADS INDUCTOR
	L9032	V13GD0000256	CHIP BEADS INDUCTOR
	L9033	V13GD0000256	CHIP BEADS INDUCTOR

	N001	23961276	SOLDER, M705-GRN360-K2V C
	N002	23961260	SOLDER, M708E-3.0 (PB-FRE
	N003	23961257	SOLDER, M708E BAR (PB-FRE
	N004	23961293	SOLDER, POSTFLUX ES-1061S
	N005	23961263	SOLDER, -F M705ESC 0.6
	N006	23961265	SOLDER, -F M705ESC 1.0
	N007	23961267	SOLDER, -F M705ESC 1.6
	N008	23962411	ADHESIVE EP 3609 300G
	N009	23964124	SOLVENT #4520 IPA 15KG UN
	N010	23964899	SOLVENT CLEANER S-10 15K
	N011	23962432	ADHESIVE, SR-22530S 25G
	NE20	VD0A00000400	TAPE
⚠	PB03A	G5B001750000	PWB
	PJ22	75001873	CONNECTOR, B-B RECEPTACLE
	PJ24	23713819	SOCKET, TWG-P23X-A1
	PJ42	V22GD0001439	2.0MM PITCH SMD NYLON CONNECTO
	PJ80	23713816	SOCKET, 127301113K2
	PJ200	V22GD0001538	2MM PITCH W TO B CONNECTOR
	PJ404	V22GD0001528	1MM PITCH B TO B CONNECTOR
	PJ920	V22GD0001511	2.0MM PITCH SMD NYLON CONNECTO
	PJ921	V22GD0001440	2.0MM PITCH SMD NYLON CONNECTO
	PJ930	23713574	CONNECTOR, 7P TOP TYPE, BM07B-SRSS-TBT(LF)
	Q320	V41GD0000232	NPN TRANSISTOR
	Q321	V41GD0000232	NPN TRANSISTOR
	Q322	V41GD0000232	NPN TRANSISTOR
	Q323	V41GD0000232	NPN TRANSISTOR
	Q324	V41GD0000236	NPN TRANSISTOR
	Q370	V41GD0000278	NPN TRANSISTOR
	Q371	V41GD0000278	NPN TRANSISTOR
	Q372	V41GD0000243	PNP TRANSISTOR
	Q400	V41GD0000236	NPN TRANSISTOR
	Q876	V41GD0000240	NPN TRANSISTOR
	Q877	V41GD0000240	NPN TRANSISTOR
	Q920	V41GD0000236	NPN TRANSISTOR
	Q921	V41GD0000236	NPN TRANSISTOR
	R300	V01GD0000894	CHIP RESISTOR (1608)
	R302	V01GD0001670	CHIP RESISTOR (1608)
	R303	V01GD0000894	CHIP RESISTOR (1608)

	R304	V01GD0000894	CHIP RESISTOR (1608)
	R305	V01GD0000894	CHIP RESISTOR (1608)
	R310	V01GD0000914	CHIP RESISTOR (1608)
	R315	V01GD0000894	CHIP RESISTOR (1608)
	R316	V01GD0000907	CHIP RESISTOR (1608)
	R317	V01GD0000914	CHIP RESISTOR (1608)
	R350	V01GD0000894	CHIP RESISTOR (1608)
	R352	V01GD0000894	CHIP RESISTOR (1608)
	R354	V01GD0001572	CHIP RESISTOR (1608)
	R380	V01GD0000915	CHIP RESISTOR (1608)
	R381	V01GD0000908	CHIP RESISTOR (1608)
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	R404	V01GD0000915	CHIP RESISTOR (1608)
	R405	V01GD0002069	CHIP RESISTOR (1608)
	R406	V01GD0002069	CHIP RESISTOR (1608)
	R411	V01GD0002069	CHIP RESISTOR (1608)
	R412	V01GD0000894	CHIP RESISTOR (1608)
	R413	V01GD0000894	CHIP RESISTOR (1608)
	R414	V01GD0000894	CHIP RESISTOR (1608)
	R415	V01GD0000894	CHIP RESISTOR (1608)
	R416	V01GD0002069	CHIP RESISTOR (1608)
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	R421	V01GD0002069	CHIP RESISTOR (1608)
	R422	V01GD0000923	CHIP RESISTOR (1608)
	R423	V01GD0002069	CHIP RESISTOR (1608)
	R424	V01GD0002069	CHIP RESISTOR (1608)
	R425	V01GD0002069	CHIP RESISTOR (1608)
	R426	V01GD0002069	CHIP RESISTOR (1608)
	R431	V01GD0000894	CHIP RESISTOR (1608)
	R432	V01GD0002075	CHIP RESISTOR (1608)
	R433	V01GD0001702	CHIP JUMPER 1608TYPE
	R434	V01GD0000895	CHIP RESISTOR (1608)
	R440	V01GD0000914	CHIP RESISTOR (1608)

	R441	V01GD0002069	CHIP RESISTOR (1608)
	R442	V01GD0002069	CHIP RESISTOR (1608)
	R447	V01GD0000894	CHIP RESISTOR (1608)
	R448	V01GD0000894	CHIP RESISTOR (1608)
	R449	V01GD0000914	CHIP RESISTOR (1608)
	R450	V01GD0002075	CHIP RESISTOR (1608)
	R451	V01GD0002209	CHIP JUMPER 1608TYPE
	R452	V01GD0000894	CHIP RESISTOR (1608)
	R453	V01GD0000894	CHIP RESISTOR (1608)
	R454	V01GD0000894	CHIP RESISTOR (1608)
	R455	V01GD0001006	CHIP RESISTOR (1608)
	R456	V01GD0000894	CHIP RESISTOR (1608)
	R457	V01GD0001006	CHIP RESISTOR (1608)
	R458	V01GD0000903	CHIP RESISTOR (1608)
	R462	V01GD0000919	CHIP RESISTOR (1608)
	R463	V01GD0000919	CHIP RESISTOR (1608)
	R464	V01GD0000908	CHIP RESISTOR (1608)
	R465	V01GD0000894	CHIP RESISTOR (1608)
	R466	V01GD0001029	CHIP RESISTOR (1608)
	R467	V01GD0001115	CHIP RESISTOR (1608)
	R468	V01GD0001004	CHIP RESISTOR (1608)
	R469	V01GD0001030	CHIP RESISTOR (1608)
	R470	V01GD0000908	CHIP RESISTOR (1608)
	R471	V01GD0000908	CHIP RESISTOR (1608)
	R472	V01GD0002069	CHIP RESISTOR (1608)
	R474	V01GD0000894	CHIP RESISTOR (1608)
	R475	V01GD0002069	CHIP RESISTOR (1608)
	R476	V01GD0002069	CHIP RESISTOR (1608)
	R477	V01GD0000908	CHIP RESISTOR (1608)
	R478	V01GD0000908	CHIP RESISTOR (1608)
	R482	V01GD0000894	CHIP RESISTOR (1608)
	R483	V01GD0000895	CHIP RESISTOR (1608)
	R484	V01GD0002069	CHIP RESISTOR (1608)
	R489	V01GD0001698	CHIP RESISTOR (1608)
	R490	V01GD0000916	CHIP RESISTOR (1608)
	R491	V01GD0000916	CHIP RESISTOR (1608)
	R492	V01GD0000916	CHIP RESISTOR (1608)
	R493	V01GD0000916	CHIP RESISTOR (1608)

	R707	V01GD0000914	CHIP RESISTOR (1608)
	R716	V01GD0000914	CHIP RESISTOR (1608)
	R717	V01GD0000914	CHIP RESISTOR (1608)
	R718	V01GD0001702	CHIP JUMPER 1608TYPE
	R719	V01GD0001702	CHIP JUMPER 1608TYPE
	R732	V01GD0001093	CHIP RESISTOR (1608)
	R733	V01GD0001093	CHIP RESISTOR (1608)
	R734	V01GD0000914	CHIP RESISTOR (1608)
	R735	V01GD0000914	CHIP RESISTOR (1608)
	R736	V01GD0000914	CHIP RESISTOR (1608)
	R745	V01GD0001006	CHIP RESISTOR (1608)
	R746	V01GD0001006	CHIP RESISTOR (1608)
	R748	V01GD0000903	CHIP RESISTOR (1608)
	R872	V01GD0000924	CHIP RESISTOR (1608)
	R873	V01GD0000931	CHIP RESISTOR (1608)
	R876	V01GD0000909	CHIP RESISTOR (1608)
	R886	V01GD0000896	CHIP RESISTOR (1608)
	R888	V01GD0000924	CHIP RESISTOR (1608)
	R894	V01GD0000924	CHIP RESISTOR (1608)
	R895	V01GD0000909	CHIP RESISTOR (1608)
	R896	V01GD0000923	CHIP RESISTOR (1608)
	R897	V01GD0000931	CHIP RESISTOR (1608)
	R913	V01GD0001667	CHIP RESISTOR (1608)
	R914	V01GD0001667	CHIP RESISTOR (1608)
	R915	V01GD0001702	CHIP JUMPER 1608TYPE
	R917	V01GD0001667	CHIP RESISTOR (1608)
	R920	V01GD0002075	CHIP RESISTOR (1608)
	R921	V01GD0002075	CHIP RESISTOR (1608)
	R922	V01GD0002075	CHIP RESISTOR (1608)
	R931	V01GD0000895	CHIP RESISTOR (1608)
	R933	V01GD0001667	CHIP RESISTOR (1608)
	R934	V01GD0001667	CHIP RESISTOR (1608)
	R935	V01GD0001667	CHIP RESISTOR (1608)
	R937	V01GD0001667	CHIP RESISTOR (1608)
	R938	V01GD0001667	CHIP RESISTOR (1608)
	R939	V01GD0000922	CHIP RESISTOR (1608)
	R940	V01GD0001006	CHIP RESISTOR (1608)
	R948	75001958	CHIP NTC THERMISTOR, NSM3103F344F3R

	R2000	V01GD0000926	CHIP RESISTOR (1608)
	R2001	V01GD0000926	CHIP RESISTOR (1608)
	R2002	V01GD0000926	CHIP RESISTOR (1608)
	R2003	V01GD0000926	CHIP RESISTOR (1608)
	R2004	V01GD0000926	CHIP RESISTOR (1608)
	R2005	V01GD0000926	CHIP RESISTOR (1608)
	R2006	V01GD0000926	CHIP RESISTOR (1608)
	R2007	V01GD0000926	CHIP RESISTOR (1608)
	R2010	V01GD0000914	CHIP RESISTOR (1608)
	R2011	V01GD0000914	CHIP RESISTOR (1608)
	R2012	V01GD0000914	CHIP RESISTOR (1608)
	R2013	V01GD0000914	CHIP RESISTOR (1608)
	R2014	V01GD0000914	CHIP RESISTOR (1608)
	R2015	V01GD0000926	CHIP RESISTOR (1608)
	R2016	V01GD0000926	CHIP RESISTOR (1608)
	R2017	V01GD0000926	CHIP RESISTOR (1608)
	R2018	V01GD0000926	CHIP RESISTOR (1608)
	R2019	V01GD0000926	CHIP RESISTOR (1608)
	R2020	V01GD0000926	CHIP RESISTOR (1608)
	R2021	V01GD0000926	CHIP RESISTOR (1608)
	R2023	V01GD0000926	CHIP RESISTOR (1608)
	R2024	V01GD0000926	CHIP RESISTOR (1608)
	R2025	V01GD0000926	CHIP RESISTOR (1608)
	R2026	V01GD0000926	CHIP RESISTOR (1608)
	R3201	V01GD0000924	CHIP RESISTOR (1608)
	R3202	V01GD0000924	CHIP RESISTOR (1608)
	R3204	V01GD0000924	CHIP RESISTOR (1608)
	R3205	V01GD0000924	CHIP RESISTOR (1608)
	R3210	V01GD0000894	CHIP RESISTOR (1608)
	R3211	V01GD0000894	CHIP RESISTOR (1608)
	R3214	V01GD0001038	CHIP RESISTOR (1608)
	R3215	V01GD0000908	CHIP RESISTOR (1608)
	R3216	V01GD0000894	CHIP RESISTOR (1608)
	R3217	V01GD0000894	CHIP RESISTOR (1608)
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	R3221	V01GD0000926	CHIP RESISTOR (1608)
	R3230	V01GD0000895	CHIP RESISTOR (1608)
	R3231	V01GD0000895	CHIP RESISTOR (1608)

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	R3290	V01GD0000924	CHIP RESISTOR (1608)
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	R3296	V01GD0001698	CHIP RESISTOR (1608)
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	R3308	V01GD0001580	CHIP RESISTOR (1608)
	R3309	V01GD0000926	CHIP RESISTOR (1608)
	R3310	V01GD0002070	CHIP RESISTOR (1608)
	R3320	V01GD0001669	CHIP RESISTOR (1608)
	R3321	V01GD0001698	CHIP RESISTOR (1608)
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	R3402	V01GD0000900	CHIP RESISTOR (1608)
	R3608	V01GD0000895	CHIP RESISTOR (1608)
	R3610	V01GD0000895	CHIP RESISTOR (1608)
	R3700	V01GD0001012	CHIP RESISTOR (1608)
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	R3703	V01GD0001107	CHIP RESISTOR (1608)
	R3704	V01GD0000940	CHIP RESISTOR (1608)
	R3705	V01GD0000940	CHIP RESISTOR (1608)
	R3706	V01GD0000909	CHIP RESISTOR (1608)
	R3707	V01GD0000895	CHIP RESISTOR (1608)
	R3708	V01GD0000895	CHIP RESISTOR (1608)
	R3709	V01GD0001107	CHIP RESISTOR (1608)
	R3710	V01GD0002069	CHIP RESISTOR (1608)
	R3711	V01GD0002069	CHIP RESISTOR (1608)
	R3720	V01GD0000896	CHIP RESISTOR (1608)
	R3721	V01GD0000896	CHIP RESISTOR (1608)
	R3730	V01GD0000908	CHIP RESISTOR (1608)
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	R3740	V01GD0000909	CHIP RESISTOR (1608)
	R3741	V01GD0000909	CHIP RESISTOR (1608)
	R3742	V01GD0000924	CHIP RESISTOR (1608)

	R3743	V01GD0000924	CHIP RESISTOR (1608)
	R3744	V01GD0002075	CHIP RESISTOR (1608)
	R4000	V01GD0000894	CHIP RESISTOR (1608)
	R4005	V01GD0000894	CHIP RESISTOR (1608)
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	R4009	V01GD0000894	CHIP RESISTOR (1608)
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	R4011	V01GD0000894	CHIP RESISTOR (1608)
	R4012	V01GD0000894	CHIP RESISTOR (1608)
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	R4017	V01GD0000894	CHIP RESISTOR (1608)
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	R4133	V01GD0000894	CHIP RESISTOR (1608)
	R4135	V01GD0000894	CHIP RESISTOR (1608)
	R9208	V01GD0000895	CHIP RESISTOR (1608)
	R9209	V01GD0001667	CHIP RESISTOR (1608)
	R9211	V01GD0000894	CHIP RESISTOR (1608)
	R9212	V01GD0000914	CHIP RESISTOR (1608)
	R9232	V01GD0000894	CHIP RESISTOR (1608)
	R9242	V01GD0000894	CHIP RESISTOR (1608)
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	R9243	V01GD0000894	CHIP RESISTOR (1608)
	R9246	V01GD0000894	CHIP RESISTOR (1608)
	R9249	V01GD0000894	CHIP RESISTOR (1608)
	RM321	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM322	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM331	V01GD0001214	CHIP NETWORK RESISTOR (1005X4)
	RM332	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM333	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM334	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM335	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM336	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM337	V01GD0001721	CHIP NETWORK RESISTOR (1005X4)
	RM400	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)

	RM401	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM402	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM403	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM404	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
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	RM406	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM407	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM408	V01GD0001726	CHIP NETWORK RESISTOR (1005X4)
	RM409	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM410	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM700	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM701	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM702	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM703	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
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	RM705	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM706	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM707	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM708	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
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	RM715	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	RM737	V01GD0001720	CHIP NETWORK RESISTOR (1005X4)
	W203	V01GD0001702	CHIP JUMPER 1608TYPE
	W219	V01GD0000895	CHIP RESISTOR (1608)
	W230	V01GD0001702	CHIP JUMPER 1608TYPE
	W231	V01GD0001702	CHIP JUMPER 1608TYPE
	W232	V01GD0001702	CHIP JUMPER 1608TYPE
	W233	V01GD0001702	CHIP JUMPER 1608TYPE
	W320	V01GD0001702	CHIP JUMPER 1608TYPE
	W400	V01GD0001702	CHIP JUMPER 1608TYPE
	W402	V01GD0001702	CHIP JUMPER 1608TYPE
	W406	V01GD0001702	CHIP JUMPER 1608TYPE
	W409	V01GD0001702	CHIP JUMPER 1608TYPE

	W410	V01GD0001702	CHIP JUMPER 1608TYPE
	W411	V01GD0001702	CHIP JUMPER 1608TYPE
	W910	V01GD0001702	CHIP JUMPER 1608TYPE
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	W912	V01GD0001702	CHIP JUMPER 1608TYPE
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	W930	V01GD0001702	CHIP JUMPER 1608TYPE
	W931	V01GD0001702	CHIP JUMPER 1608TYPE
	W932	V01GD0001702	CHIP JUMPER 1608TYPE
	W933	V01GD0001702	CHIP JUMPER 1608TYPE
	W937	V01GD0001702	CHIP JUMPER 1608TYPE
	W9102	V01GD0000929	CHIP RESISTOR (1608)
	W9103	V01GD0000929	CHIP RESISTOR (1608)
	W9104	V01GD0000929	CHIP RESISTOR (1608)
	W9105	V01GD0000929	CHIP RESISTOR (1608)
	W9106	V01GD0000929	CHIP RESISTOR (1608)
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	W9109	V01GD0000929	CHIP RESISTOR (1608)
	W9110	V01GD0000929	CHIP RESISTOR (1608)
	W9111	V01GD0000929	CHIP RESISTOR (1608)
	W9112	V01GD0001702	CHIP JUMPER 1608TYPE
	W9114	V01GD0001702	CHIP JUMPER 1608TYPE
	W9115	V01GD0001702	CHIP JUMPER 1608TYPE
	W9121	V01GD0001702	CHIP JUMPER 1608TYPE
	W9122	V01GD0001702	CHIP JUMPER 1608TYPE
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	W9128	V01GD0001702	CHIP JUMPER 1608TYPE
	W9130	V01GD0001702	CHIP JUMPER 1608TYPE
	W9131	V01GD0001702	CHIP JUMPER 1608TYPE
	W9132	V01GD0001702	CHIP JUMPER 1608TYPE
	W9134	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	W9143	V01GD0001702	CHIP JUMPER 1608TYPE

	W9150	V01GD0000929	CHIP RESISTOR (1608)
	W9151	V01GD0000929	CHIP RESISTOR (1608)
	W9152	V01GD0000929	CHIP RESISTOR (1608)
	W9153	V01GD0000929	CHIP RESISTOR (1608)
	W9154	V01GD0000929	CHIP RESISTOR (1608)
	W9155	V01GD0000929	CHIP RESISTOR (1608)
	W9156	V01GD0000929	CHIP RESISTOR (1608)
	W9157	V01GD0000929	CHIP RESISTOR (1608)
	W9158	V01GD0000929	CHIP RESISTOR (1608)
	W9159	V01GD0000929	CHIP RESISTOR (1608)
	W9160	V01GD0001702	CHIP JUMPER 1608TYPE
	X330	V10GD0000271	CHIP CERAMIC RESONATOR
	X700	V10GD0000236	CHIP CRYSTAL RESONATOR

Miscellaneous

	Location	Parts No.	Description
⚠	B001	75002247	PLASM PANEL, G6CMO42HD, V420H1-L05
	H001	23321550	TUNER, ENGF7304GF
⚠	P801	23372353	POWER CORD, UK 250V3A FL/FUSE13
	PJ22B	75001874	CONNECTOR, B-B PLUG
	PP01	23845859	HOLDER, WIRE, PVC-C0AT, L=70MM
	PP02	23974994	BAND, KESSOKU
	PP08	23974994	BAND, KESSOKU
	PP09	23845859	HOLDER, WIRE, PVC-C0AT, L=70MM
	W661	23351341	SPEAKER, SPK1410AW, 60X120 8-OHM 10W
	Z001A	23103914	FERRITE CORE, TFE1015AD
	Z601	23103841	FERRITE CORE, TFE1014
	Z661	23103841	FERRITE CORE, TFE1014
	ZA01	23103778	FERRITE CORE, TFE1008
	ZA02	23103840	FERRITE CORE, TFE1013
	ZA03	75002111	CORE, E04RA120070060KAKO
	ZJ200	23103841	FERRITE CORE, TFE1014
	ZJ201	23103840	FERRITE CORE, TFE1013
	ZL106	23103841	FERRITE CORE, TFE1014

Accessory

	Location	Parts No.	Description
	Y101	75002117	OWNERS MANUAL, ENGLISH
	Y110	75002118	OWNERS MANUAL, QUICK SET UP GUIDE
	Y130	75002113	REMOCON HAND UNIT, CT-8002
	Y170	23845800	HOLDER, WIRE, NYLON66 D6.8

Cabinet

	Location	Parts No.	Description
	A201	75002155	FRONT BEZEL
	A315	75002076	PIECE, C COVER ASSY
	A320	75001971	PIECE, FRONT AV ASSY
	A330	75001968	PIECE, AC PAL
	A340	75001920	PIECE, BUTTON 7 KEY
	A361	23717439	SCREW, PP4X8+SW+W SBN LOCK
	A380	23717240	SCREW, BITTB3X10SZN
⚠	A401	75002156	BACK COVER
	A410	23717219	SCREW, PP3X8+SW+W SBN
	A411	23717267	SCREW, BITTB4X16 SBN
	A412	23738169	SCREW, BITTB 3X8 B ECO
	A420	75002157	STAND ASSY
	A430	75001924	CLAMP
	A440	23738074	SCREW, PP 5X16 SW+W SBN

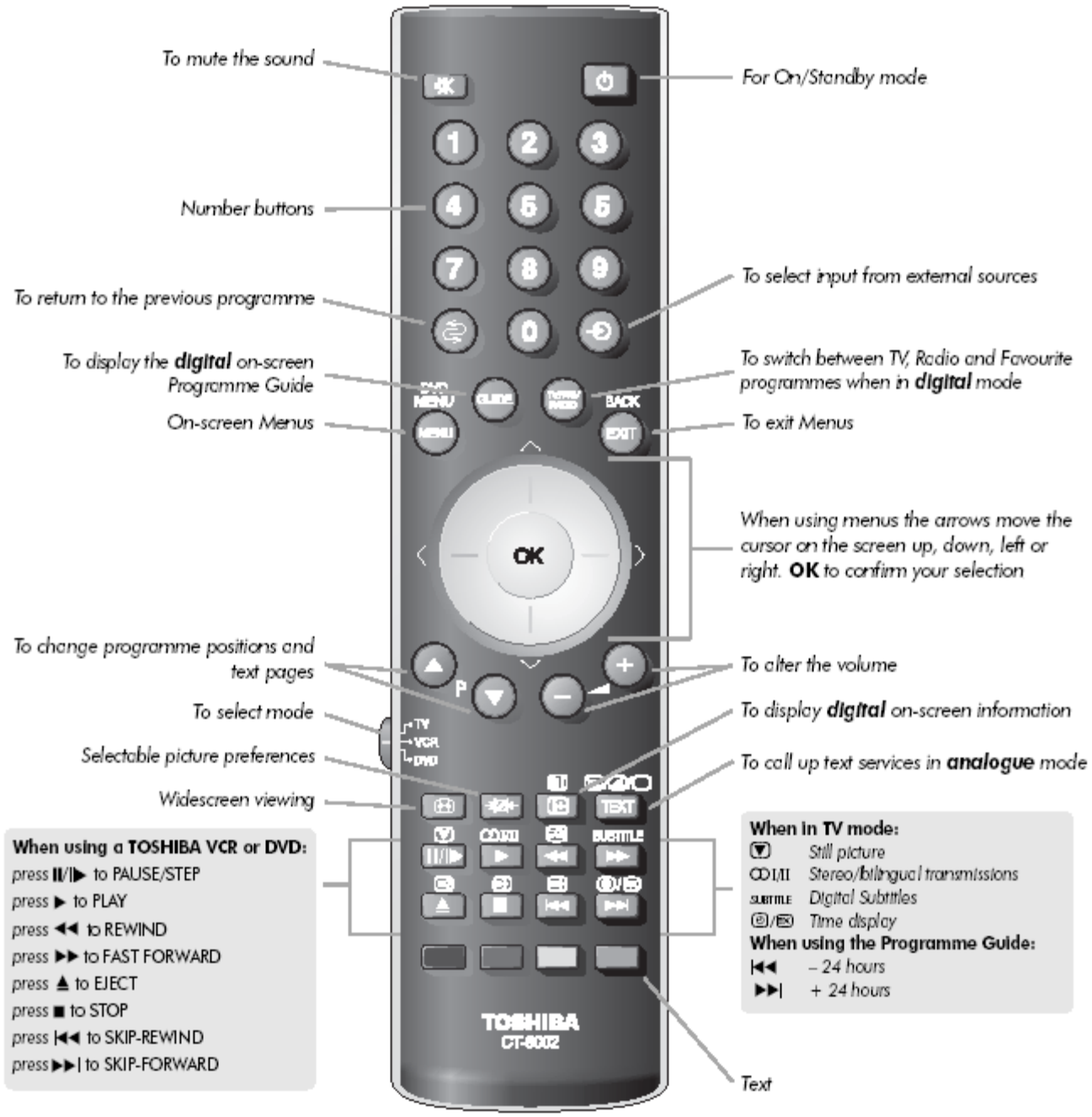
Packing

	Location	Parts No.	Description
	A701A	75002158	CARTON BOX, TOP
	A701B	75002159	CARTON BOX, BOTTOM
	A702A	75002160	PACKING, TOP PAD
	A702B	75002161	PACKING, BOTTOM PAD
	A705	23518043	PACKING, JOINT

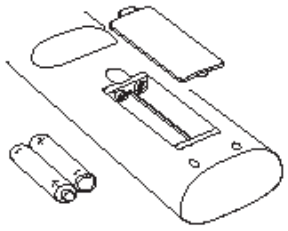
FUNCTION AND OPERATION

The Remote Control

Simple at-a-glance reference of your remote control.



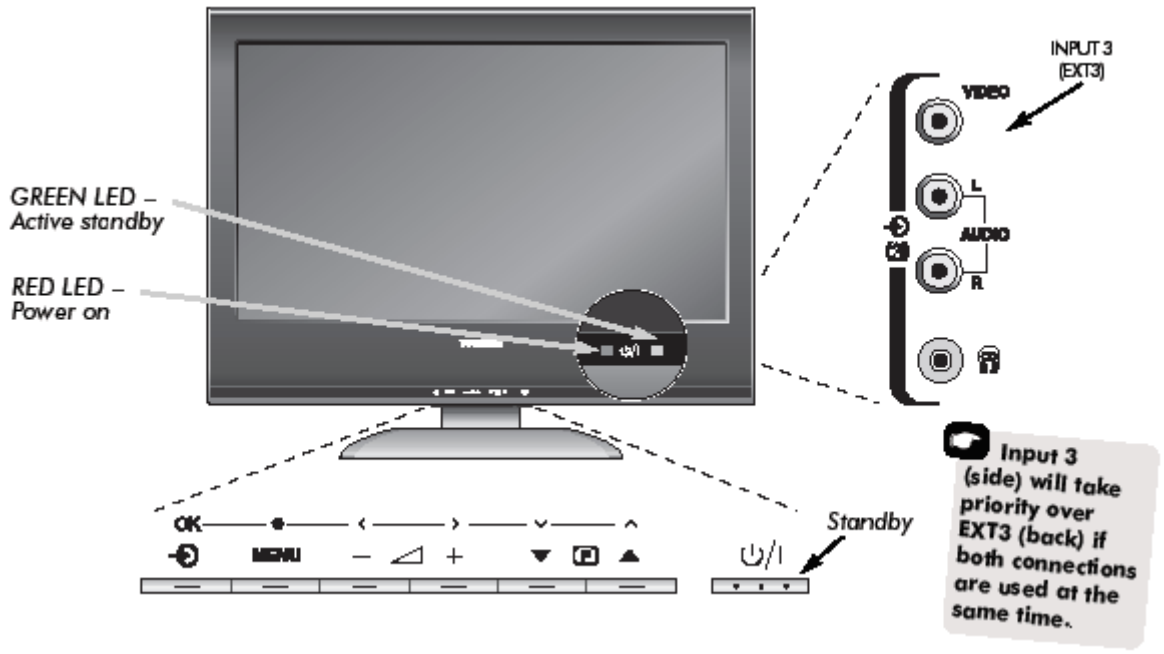
Inserting Battery and Effective Range of the Remote



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the right way round. Suitable battery types for this remote are AAA, IEC R03 1.5V.
Do not combine a used, old battery with a new one or mix battery types. Remove dead batteries immediately to prevent acid from leaking into the battery compartment. Do not expose to excessive heat such as sunshine, fire or similar. Dispose of them in a designated disposal area.
The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced the batteries may need replacing.

Control and Input Connection

A wide variety of external equipment can be connected to the input sockets on the side of the television.
Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.



Switching On

If the RED LED is unlit check that the mains plug is connected to the power supply. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control, the GREEN active standby LED will appear next to the RED for a few moments then disappear. To view the television press ⏻ again. The picture may take a few seconds to appear.

Using the Remote Control

Press the **MENU** button on the remote control to see the menus.

In **digital** mode the menu bar at the top of the screens will show three different topics shown in symbols. As each symbol is selected by pressing the ❮ or ❯ button on the remote control, its respective options will appear below.

In **analogue** mode the menu appears as a list of five topics. As each symbol is selected by pressing the ❮ or ❯ button on the remote control, its respective options will appear below.

To use the options press the ^ and ⌄ button on the remote control to move up and down through them and **OK**, ❮ or ❯ to select the required choice. Follow the on screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Control and Connection

To alter the volume press — ◿ +.

To alter the programme position press ▼ Ⓟ ▲.

Press **MENU** and ❮, ❯, ⌄ or ^ to control the sound and picture options.

Press **MENU** twice to finish.

When connecting sound equipment to **EXT3**, connect the audio output of the equipment to the phono sockets on the television.

To select the Input, press ⊕ until the display shows **EXT3** as described. The television will automatically sense the type of signal.

Please always refer to the owner's manual of the equipment to be connected for full details.

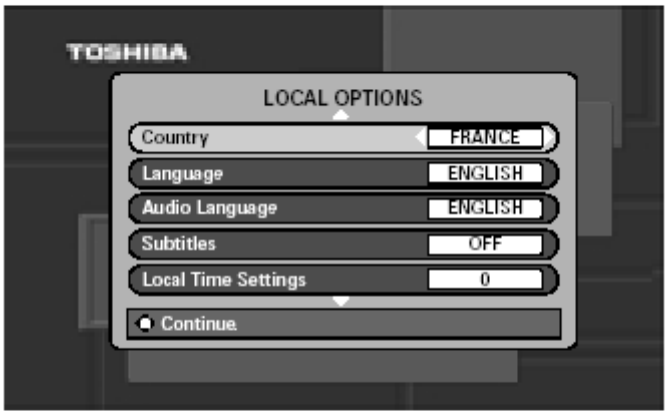
Please note: Inserting the headphone plug will mute the sound from all speakers.

Tuning the Television for the First Time

Before switching on the television put your decoder and media recorder to **Standby** if they are

connected and ensure the aerial is connected. To set up the television use the buttons on the remote control.

1 Press the power-on button, the **LOCAL OPTIONS** screen will appear. This screen will appear the first time that the television is switched on and each time the television is reset.



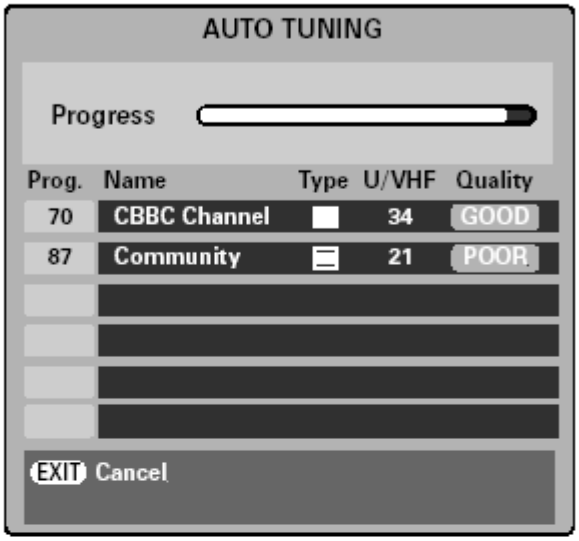
2 Press ❯ to highlight **Country** and ❮ or ❯ to select. The television will now tune the stations for your country.

3 Using ❯ highlight **Language**, then ❮ or ❯ to select.

4 Press **OK** to start tuning.

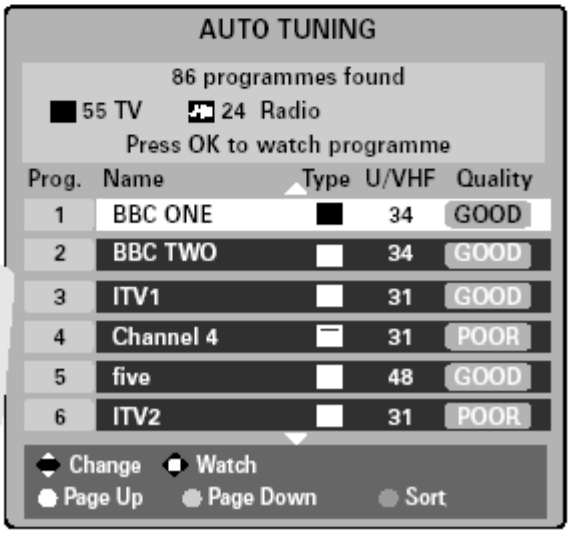
The **AUTO TUNING** screen will appear and the television will start to search for available stations. The progress bar will move along the line.

You must allow the television to complete the search.



When the search is complete the television will automatically select programme one.

The **AUTO TUNING** screen will display the total number of services found.



Different ***Channel*** *numbers may be displayed*

5 Use ⌄ or ⌃ to move through the list to select a

Digital - Auto Tuning

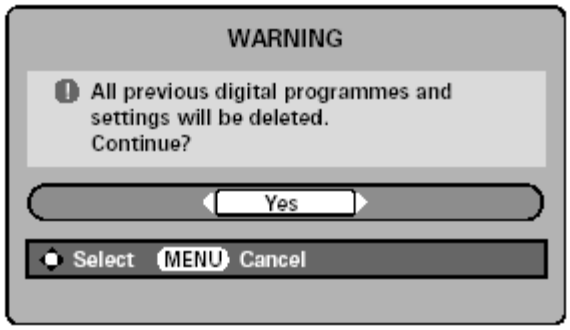
Note: As new services are broadcast it will be necessary to re-tune the television in order to view them.

Auto Tuning

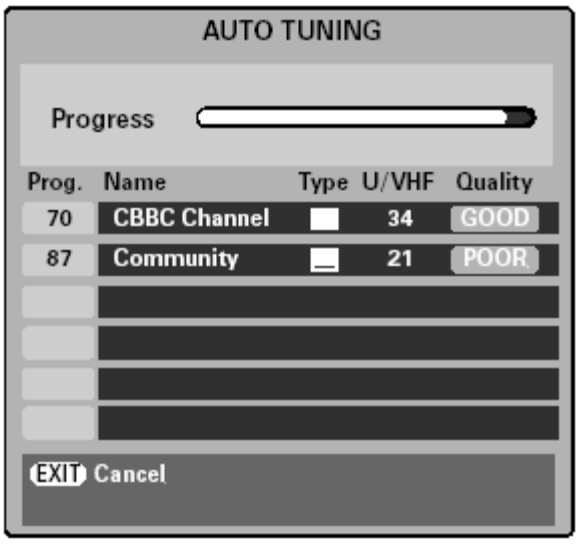
Auto tuning *will completely re-tune the television and can be used to up date the channel list.* ***It is recommended that Auto tuning is run periodically to ensure that all new services are added.*** *All current programmes and settings, i.e. favourites and locked programmes, will be lost.*

1 Press **MENU**, the **SETUP MENU** will appear. Use ⌄ to highlight **Auto tuning**. Press **OK**.

2 A screen will appear warning that previous digital programmes and settings will be deleted. Press **OK** to continue with the **Auto tuning**.

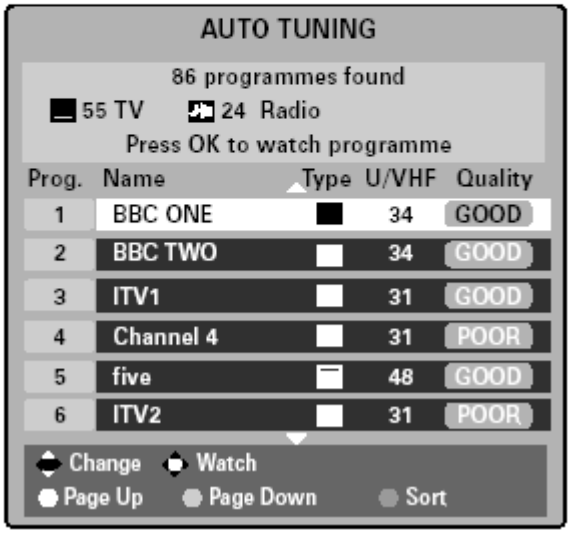


The television will start to search for all available stations.



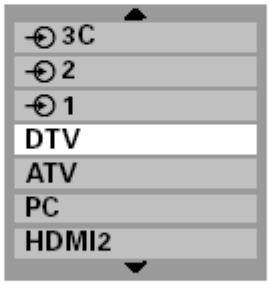
You must allow the television to complete the search.

When the search is complete the **AUTO TUNING** screen will display the total number of services found.



3 Use ⌄ or ⌃ to move through the list to select a programme then press **OK** to view.

At any time by pressing and holding ⊕ a list will appear on screen showing modes and all stored external equipment. Use ⌃ and ⌄ to highlight and **OK** to select. .



When **DTV** mode is selected pressing ⊕ repeatedly will scroll through all connected equipment and the last channel being viewed in DTV mode. .

Digital - Programme Sorting, Manual Tuning

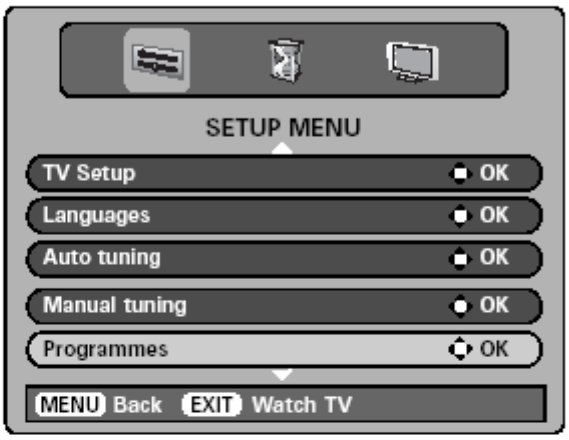
Note: When the television is switched off the mode being viewed at the time will automatically be selected when the television is switched back on.

Programme Sorting

The station order may be changed to suit personal preference.

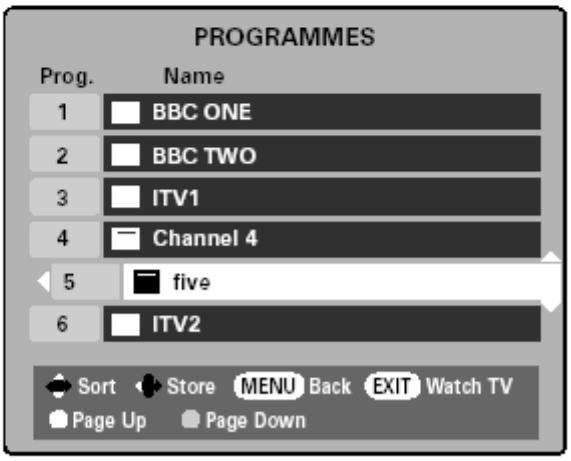
1. Press **MENU**, the **SETUP MENU** will appear on screen.

2. Use ❯ to move down through the list and highlight **Programmes**. Press **OK**.



3. With the list of stations now showing use ❯ or ❮ to highlight the station you want to *move* and press ❯.

 The selected station will be moved to the right of the screen.



4. Use ❯ or ❮ to move through the list to your *preferred* position. As you do so the other stations will move to make room.

5. Press ❮ to store your move. Repeat as necessary,

Manual Tuning

This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

1. Select **Manual tuning** from the **SETUP MENU** and press **OK**.

2. Enter the multiplex number using the number buttons and then press **OK**. The television will automatically search for that multiplex.

 When the multiplex is found any channels not currently on the programme list will be added and the programme information at the top of the screen will be updated.

3. Repeat as necessary. Press **EXIT** to finish.

Tuning Analogue Mode for the First Time

The **Quick Setup** feature will tune all **analogue** channels currently available in the area. To put the television into **ATV** mode press and hold ⊖ then use ^ or v to highlight **ATV**. Press **OK** to select.

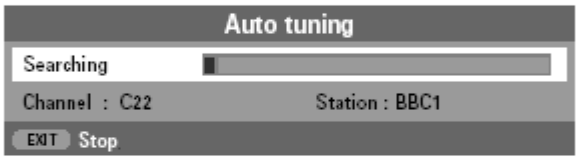
1 Select **ATV** mode. The **Quick Setup** screen will appear.



2 Using ❮ or ❯ select your **Language**, then press **OK**.

3 Then press ❮ or ❯ to select your **Country**.

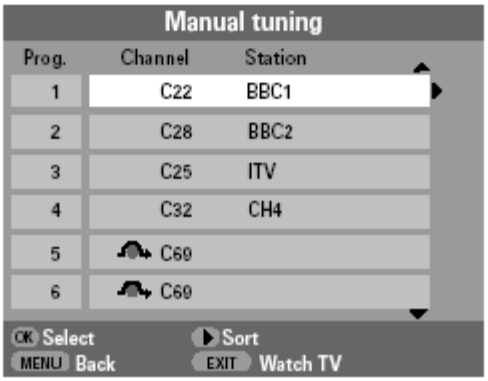
4 To start **Auto tuning** press **OK**.



5 The search will begin for all available stations. The slide bar will move along the line as the search progresses.

You must allow the television to complete the search.

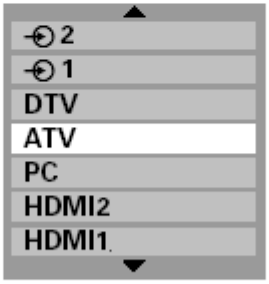
When the search is complete the television will automatically select programme position 1 and the **Manual tuning** screen will appear.



7 Use ⌄ or ⌃ to move through the list to select a programme then press **EXIT** to view.

The station order may be changed using the **Manual tuning** screen (*see the* **analogue** *'Sorting programme positions' section*).

At any time by pressing and holding ⊕ a list will appear on screen showing modes and all stored external equipment. Use ⌃ and ⌄ to highlight and **OK** to select.

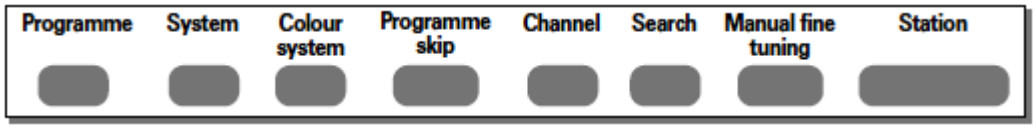


When **ATV** mode is selected pressing ⊕ repeatedly will scroll through all connected equipment and the last channel being viewed in ATV mode.

Analogue - Manual Tune

The television can be tuned-in manually using **Manual tuning**. For example: if the television cannot be connected to a media recorder/decoder with a SCART lead or to tune-in a station on another **System**.

Use ❮ and ❯ to move across the screen and select any of these Manual Tune options.



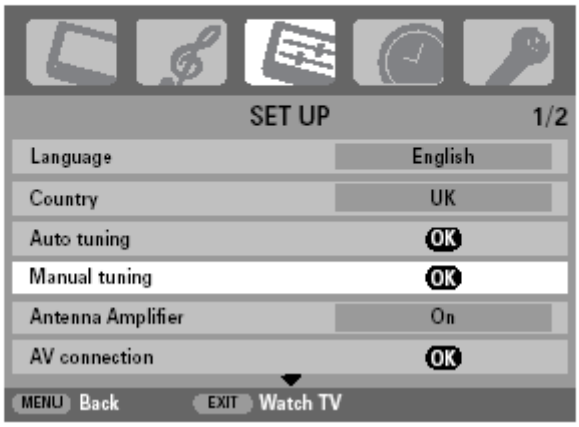
Programme : **The number to be pressed on the remote control.**

System : **Specific to certain areas.**

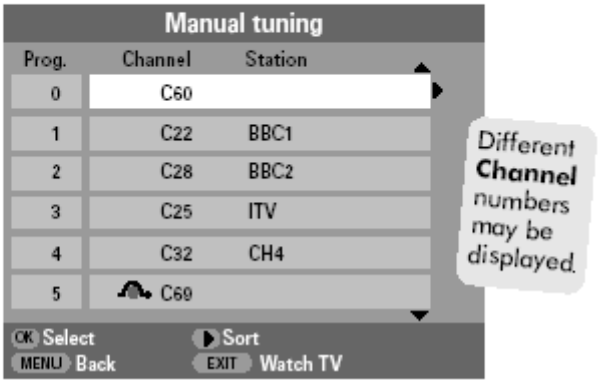
Colour system	**:**	**Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.**
Programme skip	**:**	** means nothing has been stored or the facility to skip the channel is ON.**
Channel	**:**	**The channel number on which a station is being broadcast.**
Search	**:**	**Search up and down for a signal.**
Manual fine tuning	**:**	**Only used if interference/weak signal is experienced.**
Station	**:**	**Station identification. Use the ^ or v and < or > buttons to enter up to seven characters.**

To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder and press PLAY, then manually tune.

1 Press **MENU** and using ❮ or ❯ select the **SET UP** menu, with ❯ highlight **Manual tuning**, press **OK** to select.



2 Use ❮ or ❯ to highlight the programme position required *e.g.* we suggest ***Prog. 0*** for a media recorder.



3 Press **OK** to select. If the programme is skipped, **Programme skip** must be removed before storing.



4 Press ❯ to select **System** and use ^ or ⌄ to change if required.

5 Then press ❯ to select **Search**.

6 Press ^ or ⌄ to begin the search. The search symbol will flash.



7 Each signal will show on the television, if it is not your media recorder, press ^ or ⌄ again to restart the search.

8 When your media recorder signal is found, press ❯ to move along to **Station**. With ^, v, ❮ and ❯ put in the required characters, e.g. **VCR**.



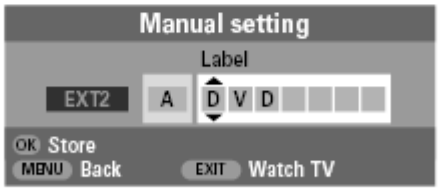
9 Press **OK** to store.

10 Repeat for each ***programme position*** you want to tune or, press **MENU** to return to the list of channels and select the next number to tune.

11 Press **EXIT** when you have finished.

12 To name external equipment, e.g. DVD on EXT2, press ⊕ to select **EXT2**, then select **Manual setting** from the **SET UP** menu.

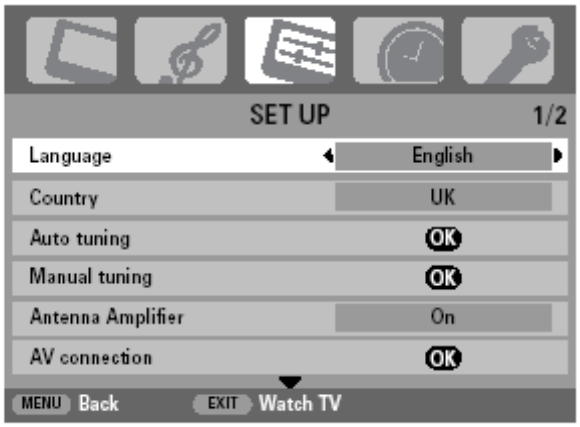
13 Press ❯ to select **Label** then using ^, v, ❮ and ❯ put in the required characters. Press **OK**.



PLEASE NOTE This television has direct channel entry if the channel numbers are known. Select the **Manual tuning** screen in ***Step 3***. Enter the **Programme number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press **OK** to store.

Using Auto Tuning

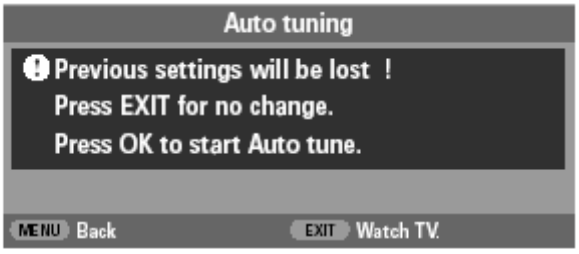
1 To set up the television using **Auto tuning**, press **MENU** and use ❮ or ❯ to select the **SET UP** menu.



2 Press ❯ to highlight **Language** and ❮ or ❯ to select.

3 Using ❯ highlight **Country**, then ❮ or ❯ to select. The television will now tune the stations for your country.

4 Press ❯ to highlight **Auto tuning**, then press **OK**.



5 To start **Auto tuning** press **OK**.

You must allow the television to complete the search.

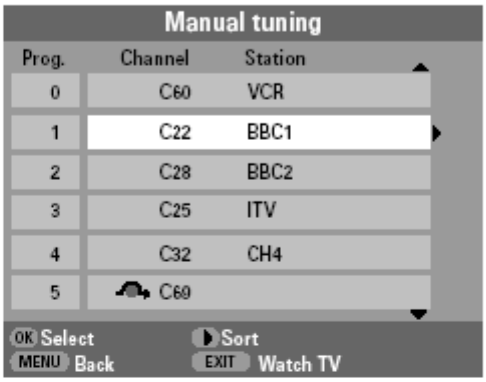
When the search is complete the television will automatically select programme position 1. This may not be a clear picture, so the station order can be changed.

Analogue - Programme Skip, Sorting Programme Position

Programme Skip

To prevent certain programmes from being viewed, the programme position can be skipped. The remote control must be removed as the channels will still be available using the number buttons. Programmes can then be watched as normal using the controls on the television, but the television will not show the skipped programme position.

1 Select **Manual tuning** from the **SET UP** menu. .



2 Use ^ or v to highlight the programme position to be skipped and press **OK** to select.

3 Press **❯** to select **Programme skip**.

4 Use ^ or v to turn **Programme skip** on. Press **OK**.

on the screen indicates a skipped programme position.



5 Press **MENU** and repeat from ***Step 2*** or press **EXIT**.

Each programme position has to be *individually* selected. To turn **Programme skip** off, repeat the procedure for each position.

Skipped programme positions ***cannot*** be selected by **P▲** and **P▼** or by the controls on the television, but ***can*** still be accessed by the number buttons on the remote control. .

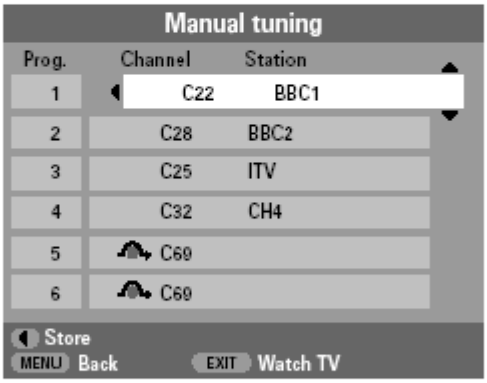
Sorting Programme Position

Channels may be moved and stored on the programme position of your choice.

1. Select **Manual tuning** from the **SET UP** menu.

2. With the list of stations now showing use ❯ or ❮ to highlight the station you want to move and press ❯.

 The selected station will be moved to the right of the screen. .



3. Use ❯ or ❮ to move through the list to your *preferred* position. As you do so the other stations will move to make room.

4. Press ❮ to store your move.

 Repeat as necessary, then press **EXIT**.

SPECIFICATION

Broadcast systems/channels

PAL-I	UHF	UK21-UK69
PAL-B/G	UHF	E21-E69
	VHF	E2-E12, S1-S41
SECAM-L	UHF	F21-F69
	VHF	F1-F10, B-Q
SECAM-D/K	UHF	R21-R69
	VHF	R1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input/Output	21-pin SCART	RGB, A/V Selectable output
EXT2	Input/Output	21-pin SCART	A/V, S-video Selectable output
EXT3	Input	Phono jacks Phono jacks	Y, P_B/C_B, P_R/C_R A/V
EXT3	Input (Side)	Phono jack Phono jacks	Video Audio L + R
HDMI 1/2	Input	HDMI connector	
PC	Input	Mini D-sub 15-pin	Analog RGB signal
PC/HDMI1 Audio		Phono jacks	Audio L + R
Audio Ouput Fixed/Variable		Phono jacks	Audio L + R

Programme positions 100

Stereo Nicam
2 carrier system

Visible Screen Size (approx.)

32WLT	80cm
37WLT	94cm
42WLT	107cm

Display 16:9

Sound output (at 10% distortion) Main 10W + 10W

Power consumption as specified in EN60107-1 : 1997

32WLT	159W
37WLT	174W
42WLT	255W

Dimensions (approx.)	26WLT	54cm (H) 66cm (W) 28cm (D)
	32WLT	61cm (H) 80cm (W) 30cm (D)
	37WLT	69cm (H) 92cm (W) 30cm (D)
	42WLT	78cm (H) 105cm (W) 36cm (D)
	(Height dimension includes foot stand)	

Weight (approx.)	26WLT	15kg
	32WLT	20kg
	37WLT	25kg
	42WLT	34kg

Headphone socket	3.5mm stereo

Accessories	Remote control
	2 batteries
	(AAA, IEC R03 1.5V)